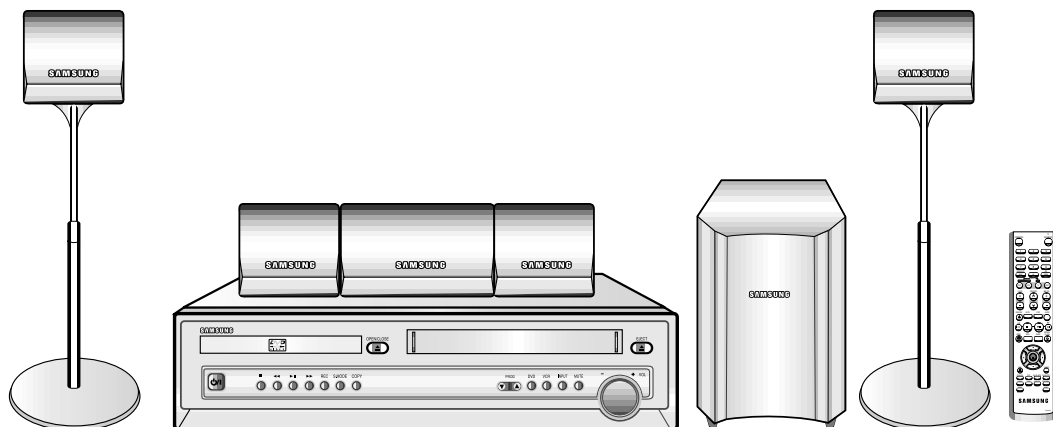




DVD-VCR

CHT-200

Instruction Manual



Contents

◆ FOREWORD	
■ Disc Type and Characteristics.....	6
◆ DVD-VCR OVERVIEWS	
■ Front View of the DVD-VCR.....	7
■ Rear View of the DVD-VCR.....	7
■ Infrared Remote Control.....	8
■ Display Indicators.....	9
■ Accessories.....	9
◆ CONNECTING YOUR DVD-VCR	
■ Deciding How to Connect DVD-VCR.....	10
■ Connecting DVD-VCR to the TV using the Coaxial Cable.....	11
■ Connecting DVD-VCR to the TV using the SCART Cable.....	11
■ Connecting DVD-VCR to a Satellite Receiver or Other Equipment.....	12
■ Plug & Auto Set up.....	13
■ Tuning Your Television for the DVD-VCR.....	14
■ Deck Control Keys.....	15
■ Basic TV Tuner Operations.....	16
■ Copying from DVD to VCR.....	17
■ Inserting Batteries in the Remote Control.....	18
■ Setting the Date and Time.....	18
■ Menu Language.....	19
◆ SETTING UP YOUR DVD-VCR	
■ Presetting the Stations Automatically.....	20
■ Presetting the Stations Manually.....	21
■ Clearing a Preset Station.....	22
■ Changing the Preset Station Table.....	23
■ Selecting the RF OUT Sound Mode (B/G-D/K).....	24
■ Setting the DVD-VCR Output Channel.....	24
■ Selecting the Colour Mode.....	25
■ NICAM.....	25
■ Intelligent Picture Control.....	26
■ Auto Power off.....	26
■ Selecting the Cassette Type.....	27
■ Auto Repeat Play.....	27
■ OSD.....	28
◆ RECORDING TELEVISION BROADCASTS	
■ Selecting the Recording Speed.....	28
■ Protecting a Recorded Cassette.....	29
■ Recording a Programme Immediately.....	29
■ Recording a Programme with Automatic Stop.....	30
■ Using the Timer Programming Feature.....	31
■ Checking a Preset Recording.....	32
■ Cancelling a Preset Programme.....	32

◆ PLAYING BACK

■ Playing a Cassette.....	33
■ Adjusting Picture Alignment Automatically	33
■ Adjusting Picture Alignment Manually	33
■ Selecting the Audio Output Mode.....	34
■ Playing a Cassette in Slow Motion	34
■ Searching for a Specific Sequence	35
■ Using the Tape Counter	36
■ Connecting an RCA Audio/Video Input Cable	37
■ Recording from Another VCR or Camcorder.....	38
■ Audio Dubbing a Pre-recorded Cassette.....	39
■ Using the TV Buttons on the Remote Control	40
■ SQPB (Super VHS Quasi Playback)	41

◆ DVD FUNCTIONS

■ Connection	42
■ Using the MAIN Menu	43
■ Using the Disc Menu Language	44
■ Using the Audio Language Features.....	45
■ Using the Subtitle Language	45
■ Setting Up the Parental Control.....	46
■ Setting Up the Audio Options	47
■ Setting Up the Display Options.....	48
■ S-Video Connections (for DVD).....	49
■ Special Playback Features	50
■ Using the Display Function (DVD/CD).....	51
■ Repeat Play	52
■ Programmed Playback (CD).....	53
■ Random Playback (CD).....	53
■ SCREEN FIT Play	54
■ Selecting the Audio Language (Using the Audio button).....	55
■ Selecting the Subtitle Language (Using the Subtitle button)	55
■ Changing the Camera Angle	56
■ Using the Mark Function (DVD).....	57
■ Recalling a Marked Scene.....	57
■ Clearing a Mark	57
■ Using the Zoom (DVD)	58
■ MP3 Play	58
■ MP3 Play (CD-R MP3 disc requirements).....	59

◆ Appendix A - Advanced Connections

■ Connecting the Speakers	60
■ Speaker Volume Control	61
■ Speaker setup	62
■ Dolby Pro Logic II decoder	64
■ SOUND MODE/EFFECT function	65

- ◆ SOLVING PROBLEMS
 - Technical Specifications 66
 - Problems and Solutions (VCR)..... 68
 - Troubleshooting Guide (DVD)..... 69

***This manual is divided into two sections:
one describing the VCR; the other, the DVD.
Prior to undertaking anything, please verify in which section you actually are by
checking either the **VCR** or **DVD** symbols or the header of the chapter.***

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Symbols



Press/push



Hold down



Important



Note

① = Step number

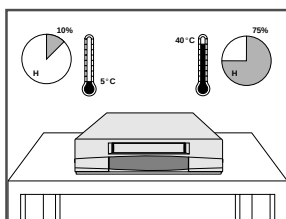
Safety Instructions

The following illustrations represent precautions.

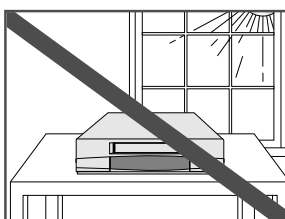


The lightning bolt is a warning sign alerting you to dangerous voltage inside the product.

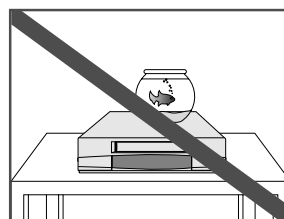
DO NOT OPEN THE DVD-VCR. Refer to service personnel.



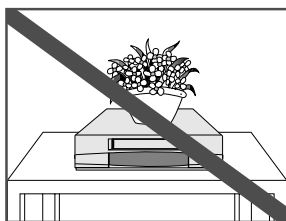
Do NOT expose the DVD-VCR to extreme temperature conditions (below 5°C and above 40°C) or to extreme humidity conditions (less than 10% and more than 75%).



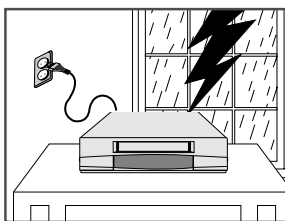
Do NOT expose the DVD-VCR to direct sunlight.



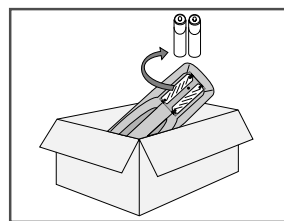
Do NOT expose the DVD-VCR to any liquids.



Do NOT place any objects on the DVD-VCR or remote control.



During a storm and/or lightning, unplug the DVD-VCR from the mains socket and aerial.



If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.

THIS DEVICE IS NOT FOR USE IN INDUSTRIAL ENVIRONMENTS

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos :

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	- DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. - Various screen and audio functions can be easily selected through the on-screen menu.
		8 Cm	Single-sided 80 min. Double-sided 160 min.	
AUDIO-CD 	Audio	12 Cm	74 min.	An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 Cm	20 min.	

* DO NOT play CD-ROM, VCD, CD-I and DVD-ROM in this player!
(CDGs play audio only, not graphics.)

* It may not be to play CD-R, CD-RW and DVD-R in all cases due to the type of disc or condition of the recording.

Disc Markings



• Playback Region Number

PAL

• PAL colour system in U.K, France, Germany, etc.

NTSC

• NTSC broadcast system in USA, Canada, Japan, South Korea, etc.



• Dolby Digital disc

STEREO

• Stereo disc

DIGITAL SOUND

• Digital Audio disc



• DTS disc

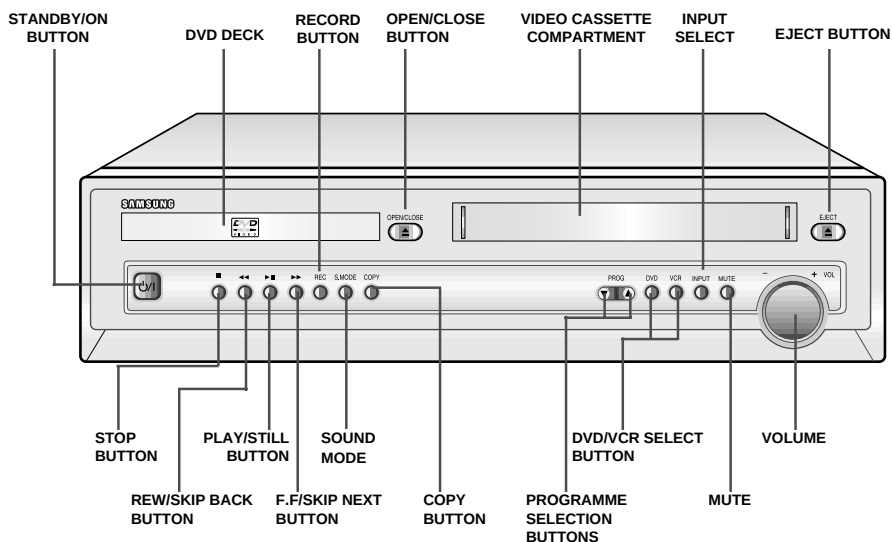
- "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.
- Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

Playback Region Number

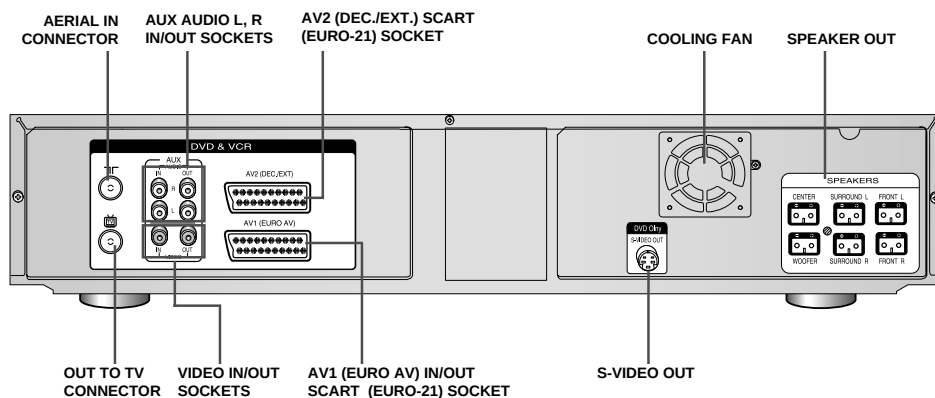
Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is described on the rear panel of the player.

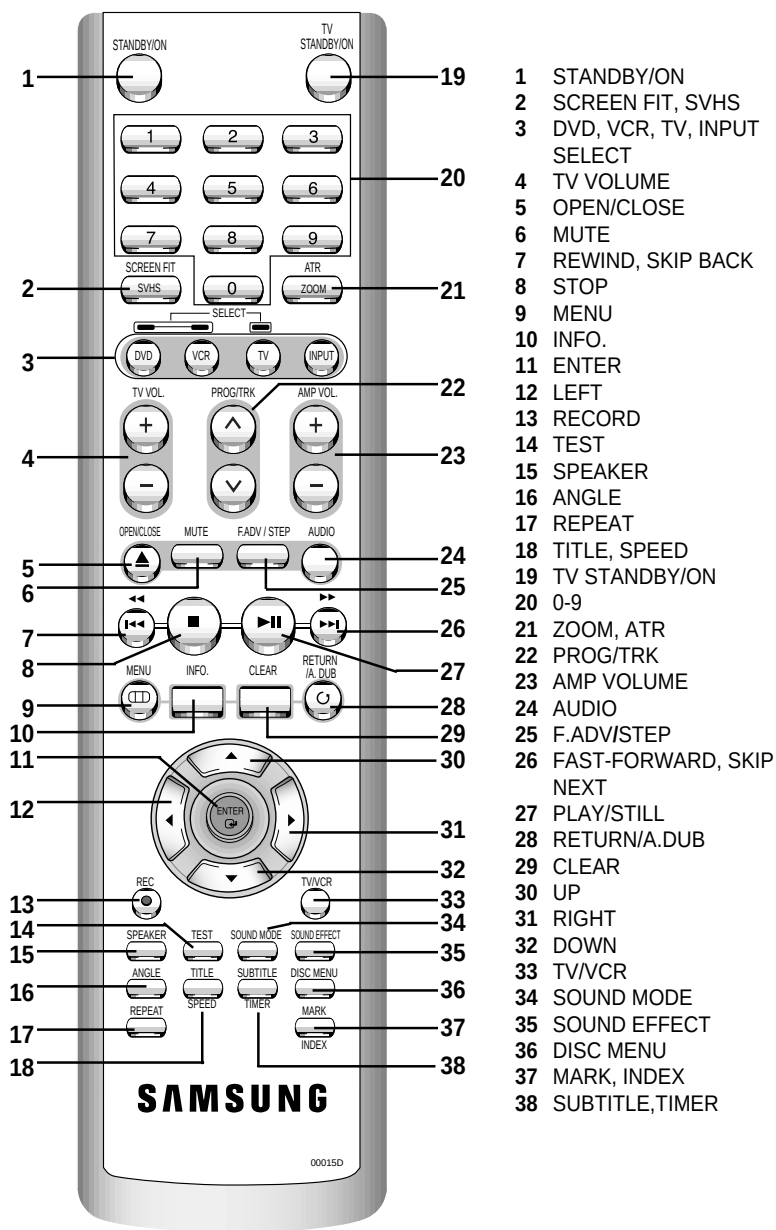
Front View of the DVD-VCR



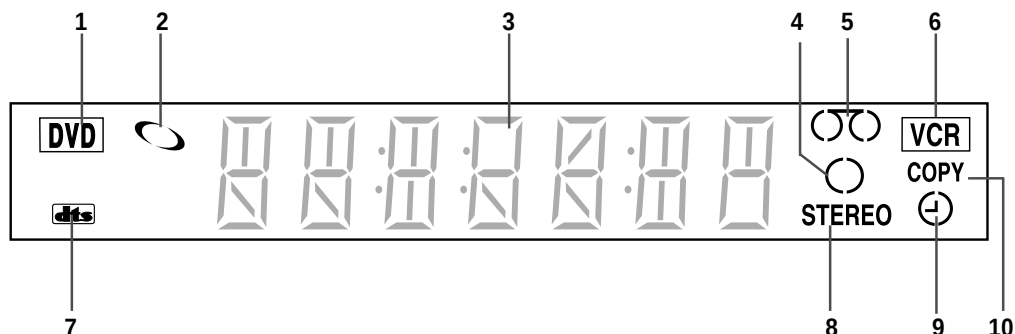
Rear View of the DVD-VCR



Infrared Remote Control



Display Indicators



- 1 The DVD Deck is active.
- 2 DVD or CD media is loaded.
- 3 The time, counter position, time remaining or current deck status is indicated.
- 4 Recording is in progress (normal and timer).
- 5 VHS videotape is loaded.
- 6 The VCR Deck is active.
- 7 A DVD with a DTS soundtrack is loaded.
- 8 The Hi-Fi track of a VHS videotape is playing or the current TV program or video is broadcast in Stereo.
- 9 Timer Recording is in progress. When it blinks an error has occurred. When recording is on, it displays without the clock hands. It also blinks when you pause the VCR.
- 10 DVD to VHS copy is in progress

Accessories

*You have just purchased a SAMSUNG Video Cassette Recorder (DVD-VCR).
Together with your DVD-VCR, you will find the following accessories in the box.*

REMOTE CONTROL & BATTERIES	AUDIO & VIDEO CABLE	OWNER'S INSTRUCTIONS	COAXIAL CABLE

Deciding How to Connect DVD-VCR

You must take into account various factors when connecting audio or video systems:

- ◆ Types of connectors available on your systems
- ◆ Systems connected permanently to the DVD-VCR (satellite receiver for example) or temporarily (camcorder for example)

Your DVD-VCR is equipped with the following connectors.

Connector	Location	Type	Direction	Recommended Use
AV1 (EURO AV)	Rear 	SCART	In/Out 	◆ Television ◆ Satellite receiver ◆ Other VCR
AV2 IN	Rear 	SCART	In 	◆ Satellite receiver ◆ CANAL/DECODER ◆ Other VCR
AUDIO input	Rear 	Audio RCA	In 	◆ Audio in
AUDIO output		Audio RCA	Out 	◆ Audio out
VIDEO input	Rear 	RCA	In 	◆ Video in
VIDEO output		RCA	Out 	◆ Video out
S-VIDEO output	Rear 	S-JACK	Out 	◆ S-Video out (DVD only)
IN FROM ANT.	Rear 	75 Ω coaxial	In 	◆ Aerial ◆ Cable television network ◆ Satellite receiver
OUT TO TV	Rear 	75 Ω coaxial	Out 	◆ Television



Whenever you connect an audio or video system to your DVD-VCR, ensure that all elements are switched off.

Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting DVD-VCR to the TV using the Coaxial Cable

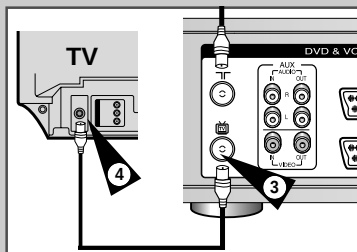
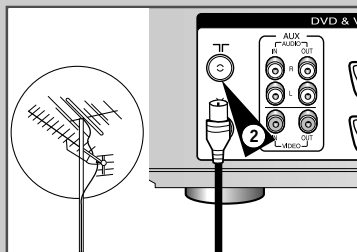
To receive television programmes a signal must be received from one of the following sources:

- ◆ An outdoor aerial
- ◆ An indoor aerial
- ◆ A cable television network
- ◆ A satellite receiver

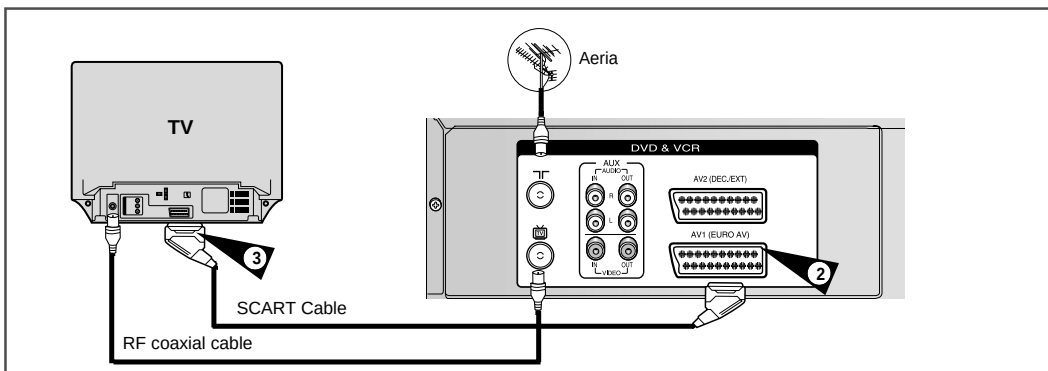


Make sure that both the television and the DVD-VCR are switched off before connecting the cables.

- 1 Remove the aerial or network input cable from the television.
- 2 Connect this cable to the 75Ω coaxial socket marked  on the rear of your DVD-VCR.
- 3 Plug the coaxial cable supplied into the  socket on your DVD-VCR.
- 4 Plug the other end of the coaxial cable into the connector previously used for the aerial on the television.
- 5 To obtain better quality pictures and sound on your television, you can also connect your DVD-VCR to the television via the SCART cable (see section below) if your television is equipped with this type of connection.



Connecting DVD-VCR to the TV using the SCART Cable



You can connect your DVD-VCR to the television using the SCART cable if the appropriate input is available on the television. You thus:

- ◆ Obtain better quality sound and pictures
- ◆ Simplify the setting up procedure of your DVD-VCR



- ◆ Regardless of the type of connection chosen, you must always connect the coaxial cable supplied. Otherwise, no picture will be visible on the screen when the DVD-VCR is switched off.
- ◆ Make sure that both the television and the DVD-VCR are switched off before connecting the cables.

- 1 Connect the coaxial cable as indicated in the above section.
- 2 Connect one end of the SCART cable to the AV1 (EURO AV) socket on the rear of the DVD-VCR.
- 3 Plug the other end into the appropriate connector on the television.

Connecting DVD-VCR to a Satellite Receiver or Other Equipment

You can connect your DVD-VCR to a Satellite receiver or other DVD-VCR using the SCART cable if the appropriate outputs are available on the equipment chosen. The following illustrations give a few examples of the connection possibilities.

1. AV1(EURO AV): By means of 21-pin Scart Cable

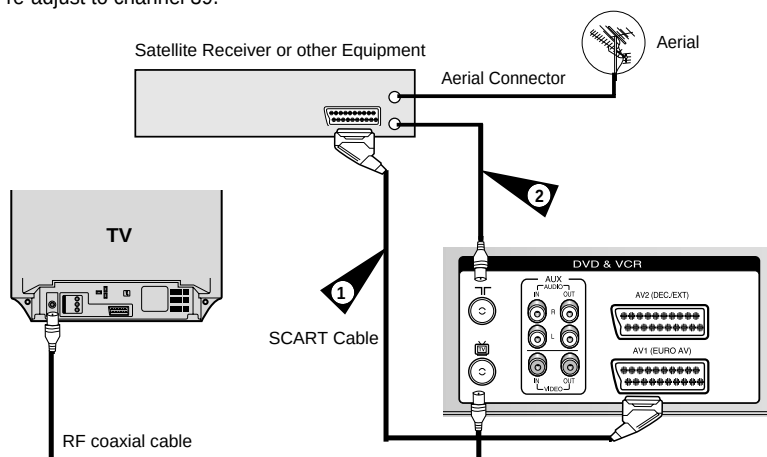
Plug the SCART Cable with satellite receiver or other equipment into the AV1 (EURO AV) socket on the rear of the DVD-VCR.

After making this connection, select the source by pressing the INPUT button for the AV1 input sources.

2. By means of RF Coaxial Cable

After making this connection, you must preset the station received through the satellite tuner.

RF output channel of the satellite receiver should be adjusted away from channel 36, which is used by the DVD-VCR, e.g. re-adjust to channel 39.



1. AV2 IN: By means of 21-pin Scart Cable

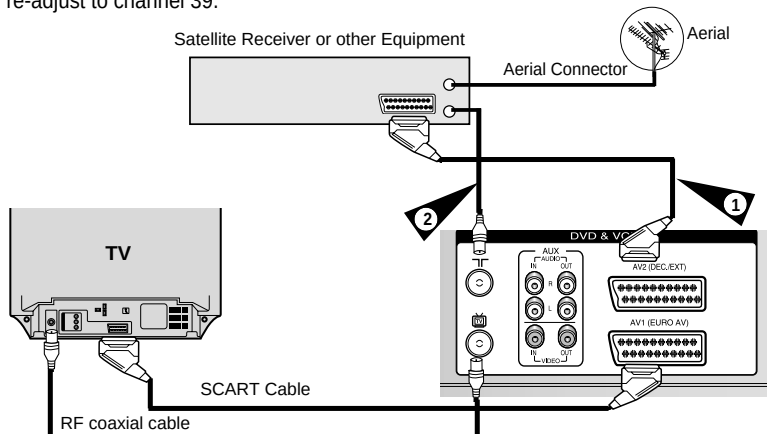
Plug the SCART Cable with satellite receiver or other equipment into the AV2 (DEC./EXT.) socket on the rear of the DVD-VCR.

After making this connection, select the source by pressing the INPUT button for the AV2 input sources.

2. By means of RF Coaxial Cable

After making this connection, you must preset the station received through the satellite tuner.

RF output channel of the satellite receiver should be adjusted away from channel 36, which is used by the DVD-VCR, e.g. re-adjust to channel 39.

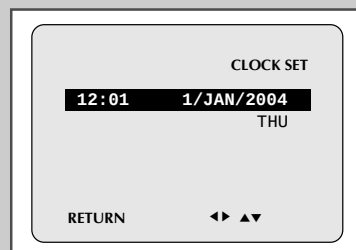
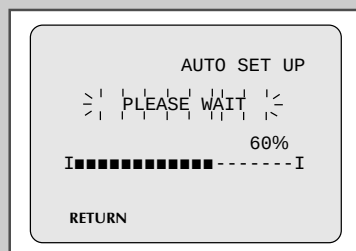
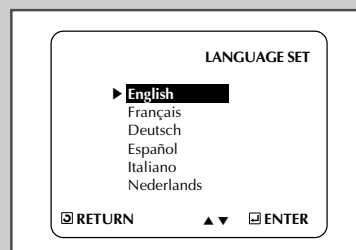
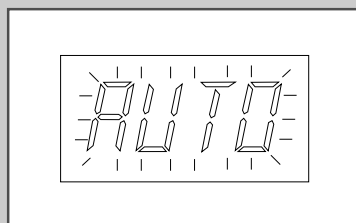
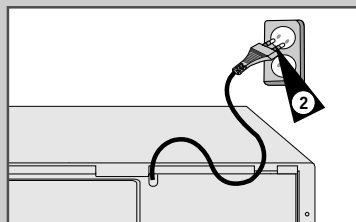
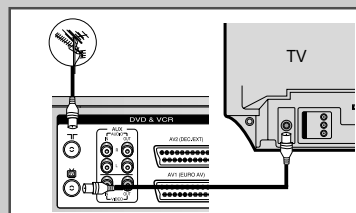


Plug & Auto Set up

Your DVD-VCR will automatically set itself up when it is plugged into the mains for the first time. TV stations will be stored in memory. The process takes a few minutes. Your DVD-VCR will then be ready for use.

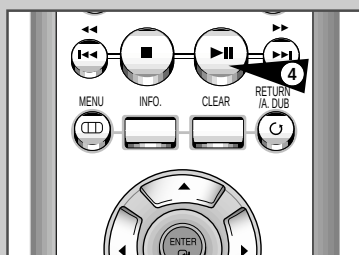
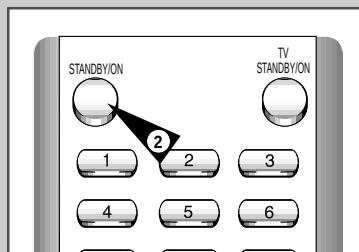
- 1 Connect the coaxial cable as indicated on page 11.
(Connecting Your DVD-VCR to the TV Using the Coaxial Cable)
- 2 Plug the DVD-VCR into the mains.
- 3 Set "Language"
Move the selection bar to your desired Language, then press ENTER button.
- 4 Start the auto scanning.
◆ The number of stations automatically stored by the DVD-VCR depends on the number of stations that it has found.
- 5 The time and date are displayed. See page 18, Check the date and time.
◆ It is correct, Press RETURN button twice to exit the menu.

➤ Auto preset can be performed by pressing ■ (STOP) on the VCR continuously for 5 seconds or more with no tape inserted.



Tuning Your Television for the DVD-VCR

GB



You must tune your television for the DVD-VCR only if you are not using a Scart cable



To view pictures from your DVD-VCR when a Scart cable is used, the television must be set to the audio/video mode (AV).

- 1 Switch on the television.
- 2 Switch on the DVD-VCR by pressing STANDBY/ON on the front of the DVD-VCR or STANDBY/ON on the remote control.
- 3 Select a programme position on the television to be reserved for use with your DVD-VCR.
- 4 Insert the video cassette in the DVD-VCR. Check that the DVD-VCR starts reading the cassette; if not, press ►|| button.
- 5 Start a scan on your television or set the television to UHF channel 36.
- 6 Fine tune the television until the pictures and sound are obtained clearly.
- 7 If you cannot find the pictures and sound, or there is interference from nearby channels, it may be necessary to change the setting of the DVD-VCR output channel (see Setting the DVD-VCR Output Channel on page 24 and Problems and Solutions on page 68).
- 8 When the picture and sound are perfectly clear, store this channel at the desired programme position on the television.
Result: That programme is now reserved for use with your DVD-VCR.

Deck Control Keys

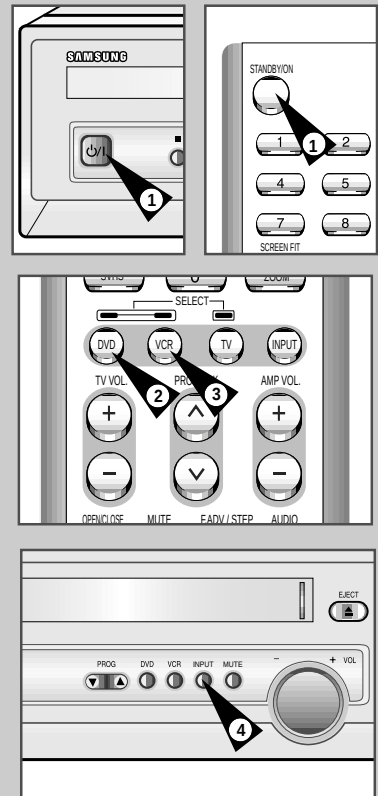
The DVD-VCR uses one set of controls to operate both decks. The following keys are helpful in successfully controlling each deck.

- 1 STANDBY/ON Button**
Press the STANDBY/ON button on the remote control or front panel to turn on the DVD-VCR.
- 2 DVD Button**
Press the DVD button on the remote control when you want to control the DVD deck.
◆ The DVD indicator will light on the Front Panel Display to show that the DVD deck is selected.
- 3 VCR Button**
Press the VCR button on remote control when you want to control the VCR deck.
◆ The VCR indicator will light on the Front Panel Display to show that VHS deck is selected.
- 4 INPUT Button**
Press the INPUT button repeatedly to cycle through all of your input sources, including the Tuner (PR##), AV1, AV2 and AUX (rear RCA input).



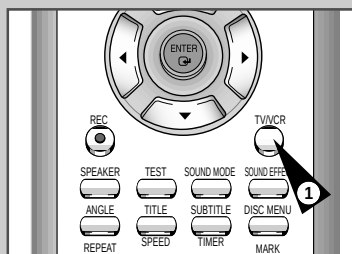
Before using the VCR operation of 20~41 pages, press the VCR button on the remote control to select VCR mode.

Before using the DVD operation of 42~59 pages, press the DVD button on the remote control to select and watch DVD.



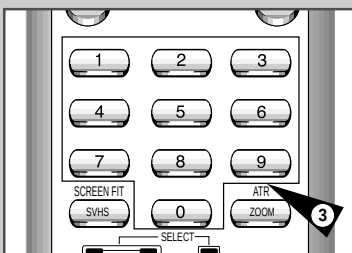
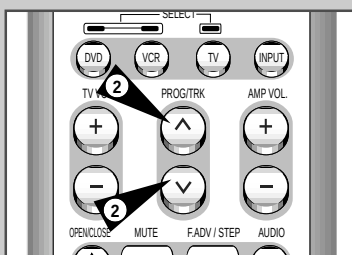
Basic TV Tuner Operations

GB



The following buttons are used when watching television via the DVD-VCR's built-in TV tuner.

- 1 TV / VCR Button**
Press to switch between your TV's tuner and the VCR's internal tuner.
- 2 PROG Up/Down Button**
Press to change to the next or previous channel.
- 3 0-9 Buttons**
Press to select channels directly.



Copying from DVD to VCR

The DVD-VCR allows you to copy the contents of a DVD to a VHS tape with a press of the COPY button.

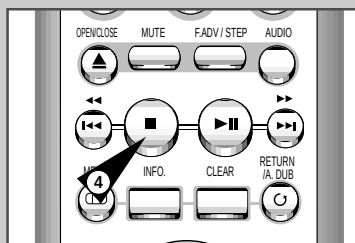
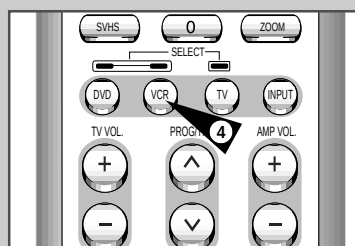
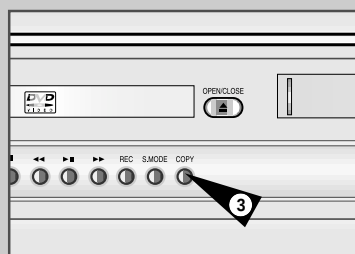
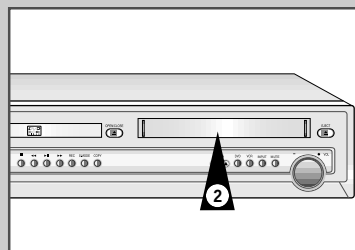
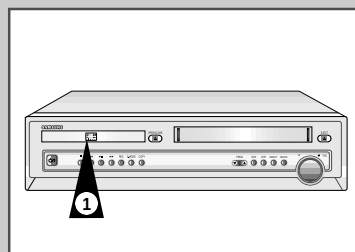


If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision® encoded DVDs.

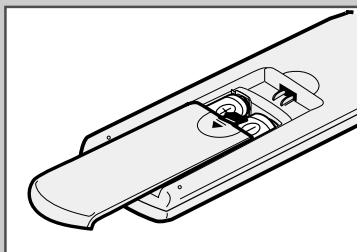
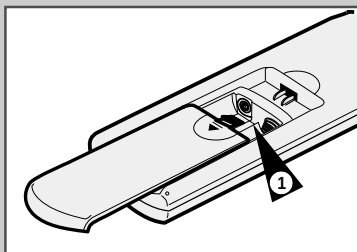
- 1 Insert Disc**
Insert the disc you wish to copy in the DVD deck and close the drawer.
- 2 Insert VHS Tape**
Insert a blank VHS videotape into the VCR deck.
- 3 Copy the DVD to VHS Tape**
Press the COPY button on the DVD-VCR front panel.
♦ The DVD will go into Play mode and the VCR will go into Record mode.
- 4 Stop the Copy Process**
When the DVD is finished playing, press the VCR button on the remote control and then press the STOP button to end the copy.
♦ You must stop the Copy process manually when the DVD movie ends or the DVD may replay and record over and over again.



The NTSC DVD Copy process can not active.



Inserting Batteries in the Remote Control



You must insert or replace the batteries in the remote control when you:

- ◆ *Purchase the DVD-VCR*
- ◆ *Find that the remote control is no longer working correctly*

- 1 Push the tab in the direction of the arrow to release the battery compartment cover on the rear of the remote control.
- 2 Insert two AAA, R6 or equivalent batteries, taking care to respect the polarities:
 - ◆ + on the battery with + on the remote control
 - ◆ – on the battery with – on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pushing it back into place.

➤ Do not mix different battery types (manganese and alkaline for example).

Setting the Date and Time

Your DVD-VCR contains a 24-hour clock and calendar used to:

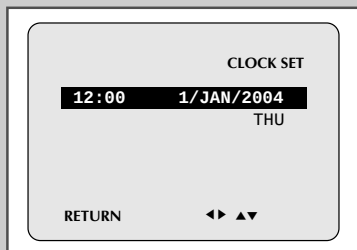
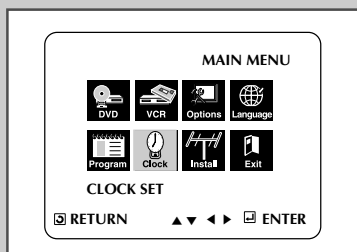
- ◆ *Automatically stop programme recording*
- ◆ *Preset your DVD-VCR to record a programme automatically*

You must set the date and time when:

- ◆ *You purchase the DVD-VCR*



- ◆ Do not forget to reset the time when you change clocks from winter to summer time and vice versa.



- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **CLOCK SET** option.
- 3 Press the ENTER button to select this option.
Result: The **CLOCK SET** menu is displayed.
- 4 Press ◀ or ▶ to select the hour, minutes, day, month and year.
Result: The option selected flashes.
- 5 Press the ▲ or ▼ buttons to increase or decrease the value.
Result: The day of the week is displayed automatically.
➤ You can hold the ▲ or ▼ buttons down to scroll more quickly through the values.
- 6 On completion, press RETURN to exit the menu.

Menu Language

1 Open "MAIN MENU"

With the DVD in stop mode, press the MENU button.

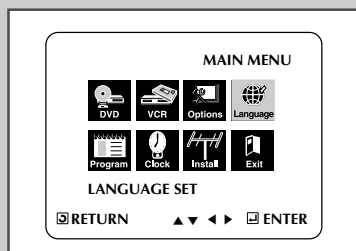
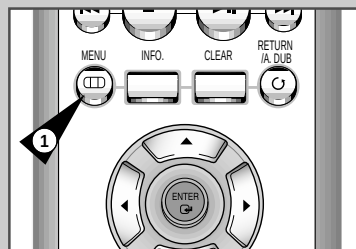
2 Set "LANGUAGE"

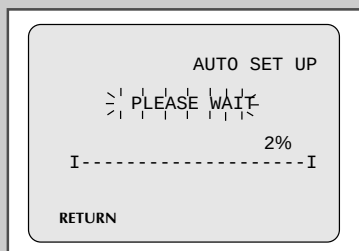
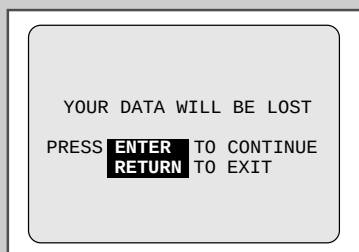
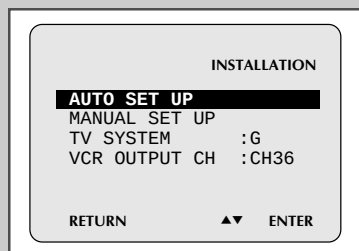
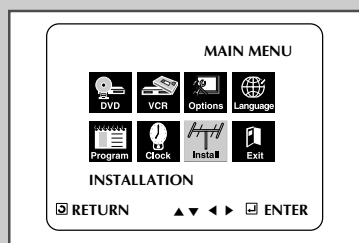
Using the ▲, ▼ and ◀, ▶ buttons, move the selection arrow to Language set then press ENTER button.

3 Set menu Language

Move the selection bar to your desired Language, then press ENTER button.

4 On completion, press RETURN to exit the menu.





You do not need to preset the stations if you have already set them automatically (see Plug & Auto Set Up on page 13).

Your DVD-VCR contains a built-in tuner used to receive television broadcasts.

You must preset the stations received through the tuner. This can be done:

- ◆ **Automatically**
- ◆ **Manually** (see page 21)

You can store up to 80 stations.

- 1 Press the MENU button on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the ENTER button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **AUTO SET UP** option is selected. And then press the ENTER button to select this option.
- 5 Press ENTER to start the auto scanning.
Result:
 - ◆ The **PLEASE WAIT** indication flashes on the television screen.
 - ◆ The first frequency band is scanned and the first station found is displayed and stored.
 - ◆ The DVD-VCR then searches for the second station and so on.
 - ◆ When the automatic scanning procedure has finished, the DVD-VCR switches automatically to programme 1.
- The number of stations automatically stored by the DVD-VCR depends on the number of stations that it has found.
- 6 If you wish to cancel the auto scanning before the end, press the RETURN button three times to exit the menu.



- ◆ Once the auto scanning procedure has finished, some stations may have been stored more than once; select the stations with the best reception and delete the ones no longer required (see page 22).

Presetting the Stations Manually

VCR

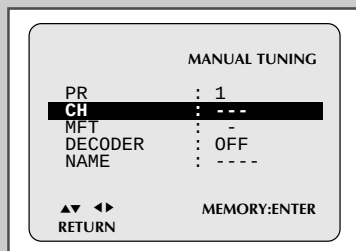
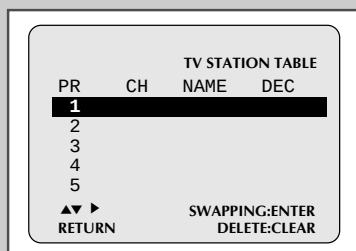
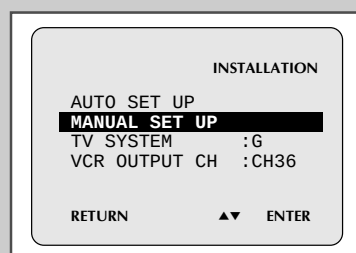
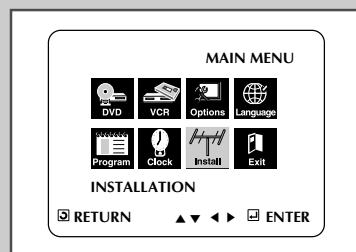


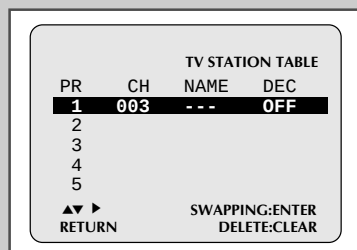
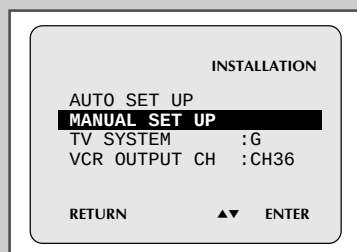
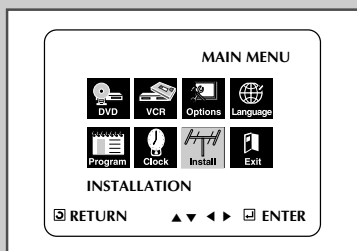
You do not need to preset the stations manually if you have already set them automatically.

- 1 Press the MENU button on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the ENTER button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **MANUAL SET UP** option is selected.
- 5 Press the ENTER button to select a **MANUAL SET UP** option.
Result: The **TV STATION TABLE** menu is displayed.
- 6 Press the ▲ or ▼ buttons to select a programme number as required.
- 7 Press the ▶ button to preset the station.
Result: The **MANUAL TUNING** menu is displayed.
- 8 Press the ◀ or ▶ buttons to start scanning.
Result: The frequency band is scanned and the first station found is displayed.
- 9 Press the ▼ button, until the **DECODER** is selected.
- 10 Press the ▶ button to activate or deactivate use of the decoder for the TV station, if necessary.
- 11 Press the ▲ or ▼ buttons until the **NAME** is selected.
The station name is set automatically from the broadcast signal.
- 12 To change the programme's name, press the ▶ button.
Result: The first letter of the name flashes.
- 13

To...	Then...
Select a character in the name	Press the ▲ or ▼ button until the required character is displayed (letters, numbers or "-" character).
Move to the next or previous character	Press the ◀ or ▶ buttons respectively.
- 14

If you...	Then...
Wish to store the station displayed	◆ Press the ▲ or ▼ buttons until the MFT is selected. ◆ Press the ◀ or ▶ buttons to adjust the picture, if necessary. ◆ Press ENTER to store the station
Do <u>not</u> wish to store the station displayed	◆ Press the ▲ or ▼ buttons until the CH is selected. ◆ Press the ◀ or ▶ buttons to go on scanning the frequency band and display the next station ◆ Go back to the beginning of Step 9
- 15 Repeat this procedure from Step 6 onwards, until all the required stations have been stored.
- 16 On completion, press the RETURN button three times to exit the menu.





If you have stored a TV station:

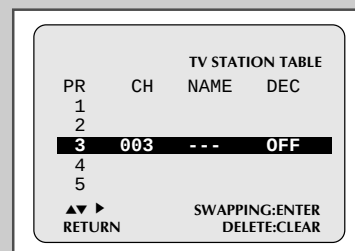
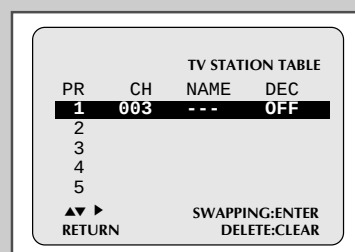
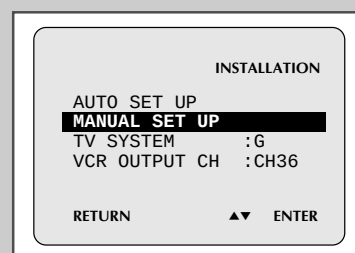
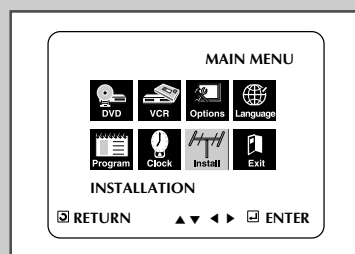
- ◆ *That you do not require*
- ◆ *At the wrong programme position*

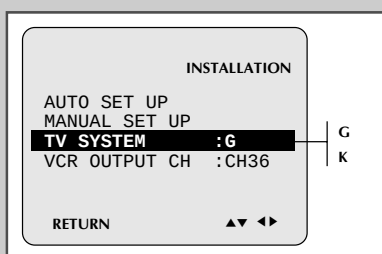
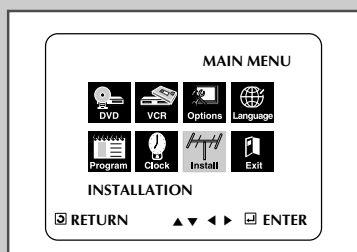
you can cancel it.

- 1 Press the MENU button on the remote control.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the ENTER button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **MANUAL SET UP** option is selected.
- 5 Press the ENTER button to select this option.
Result: The **TV STATION TABLE** menu is displayed.
- 6 Press the corresponding ▲ or ▼ buttons, until the required preset TV station is selected. (**PR**)
- 7 Press the CLEAR button.
- 8 Repeat the same procedure from Step 6 onwards until all the required stations have been cleared.
- 9 On completion, press the RETURN button three times to exit the menu.

You can rearrange the Station Table and give different programme numbers to the stations listed according to your own preferences.

- 1 Press the MENU button on the remote control.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the ENTER button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **MANUAL SET UP** option is selected.
- 5 Press the ENTER button to select this option.
Result: The **TV STATION TABLE** menu is displayed.
- 6 Press the corresponding ▲ or ▼ buttons, until the required preset TV programme is selected.
Result: The selected station is displayed at the same time on the television screen.
- 7 To change the programme number assigned to a station press the ENTER button on the remote control (For example; To move a TV station in programme 1 to programme 3).
- 8 Move to the other programme number and press the ENTER button. You can modify this station by repeating the same procedure from Step 6 onwards.
- 9 On completion, press the RETURN button three times to exit the menu.



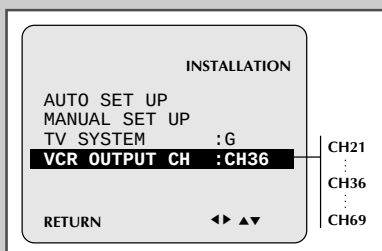
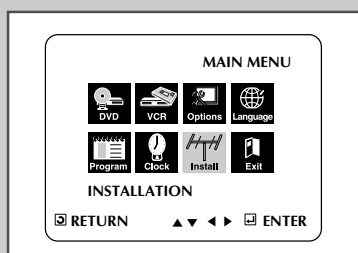


You can choose the sound mode (B/G or D/K) according to the TV set connected to your VCR.

- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the ENTER button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the ▲ or ▼ buttons, until the **TV SYSTEM** option is selected.
- 5 Press the ◀ or ▶ button to select G or K.
- 6 On completion, press RETURN to exit the menu.

Your DVD-VCR output channel may need to be changed if the pictures suffer from interference or if your TV cannot find the pictures.

Also, you can change the DVD-VCR output channel to adjust the frequency in which information is displayed on the screen.



- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the ENTER button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the ▲ or ▼ buttons, until the **VCR OUTPUT CH** option is selected.
- 5 Select the required output channel (CH21~CH69) by pressing the ◀ or ▶ buttons.
- 6 On completion, press RETURN to exit the menu.
Then tune your television again (see page 14).

Selecting the Colour Mode

VCR

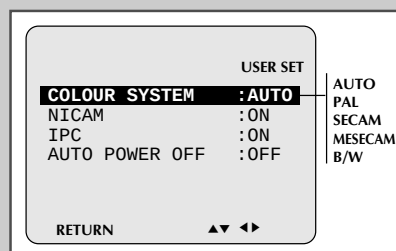
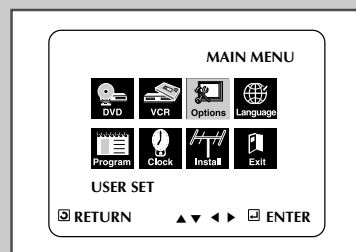
Before recording or playing back a cassette, you can select the required system standard.

Otherwise, the system automatically selects the reception standard when you select AUTO.

- ◆ When playing back a cassette, the standard is automatically selected by the DVD-VCR.
- ◆ When you playback an NTSC-recorded tape on this DVD-VCR make a setting on the colour system according to your TV. If your TV is a PAL system only TV, set NTPB. If your TV is Multi System TV (NTSC 4.43 compatible), set NT4.43 and you can record NT4.43.

- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **USER SET** option.
- 3 Press the ENTER button to select this option.
Result: The **USER SET** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **COLOUR SYSTEM** option is selected.
- 5 Press the ▶ button to select **AUTO** → **PAL** → **SECAM** → **MESECAM** → **B/W**.

AUTO	When playing back a cassette, the system standard is automatically selected by the DVD-VCR.
B/W	Black and White
- 6 On completion, press RETURN twice to exit the menu.



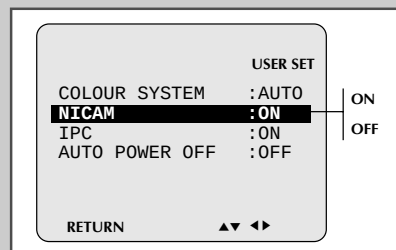
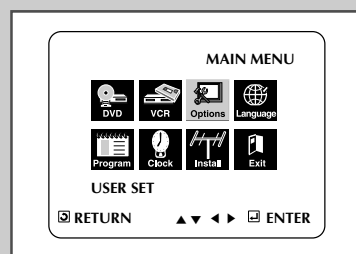
NICAM

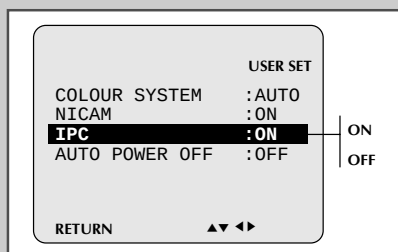
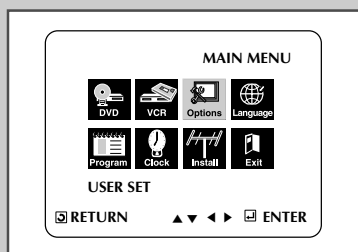
VCR

NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound. Please refer to page 34.

- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **USER SET** option.
- 3 Press the ENTER button to select this option.
Result: The **USER SET** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **NICAM** option is selected.
- 5

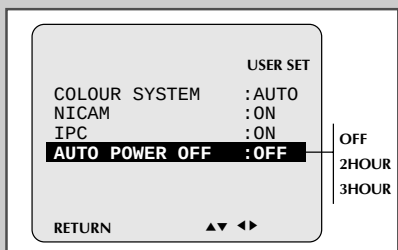
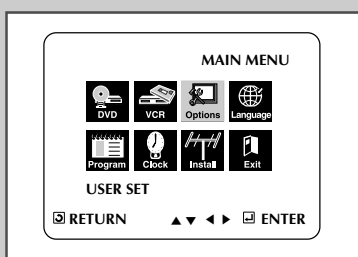
To...	Press ◀ or ▶, until...
Mono mode	OFF is displayed. OFF: Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.
NICAM mode	ON is displayed. ON: Normally set at this position.
- 6 On completion, press RETURN twice to exit the menu.





The Intelligent Picture Control Feature allows you to adjust the sharpness of the image automatically, according to your own preferences.

- 1 During playback, press the MENU button on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **USER SET** option.
- 3 Press the ENTER button to select this option.
Result: The **USER SET** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **IPC** option is selected.
- 5 Press the ▶ button to select the IPC (intelligent picture control) option.
➤ When intelligent picture control mode is **ON**, the sharpness of the image is adjusted automatically.
- 6 To adjust the sharpness manually, press the ▼ button to turn the IPC mode **OFF**.
- 7 Press the ◀ or ▶ buttons until the picture is displayed according to your preferences.
➤ If you do not press a button within ten seconds, the **PICTURE** menu disappears automatically.
- 8 On completion, press the RETURN button.



The Auto Power Off feature automatically turns off your DVD-VCR if no signal is received and you do not press any button for the selected time.

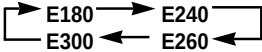
- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **USER SET** option.
- 3 Press the ENTER button to select this option.
Result: The **USER SET** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **AUTO POWER OFF** option is selected.
- 5 Press the ▶ button, until you select the time of Auto Power off interval.
➤ **OFF → 2HOUR → 3HOUR**
- 6 On completion, press RETURN twice to exit the menu.

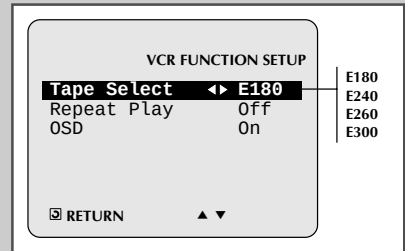
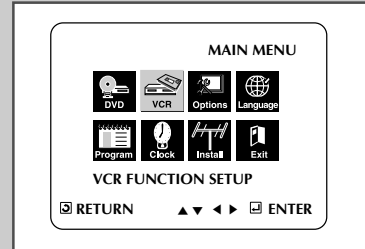
Selecting the Cassette Type

VCR

GB

If you wish to use the tape counter to display the time remaining on a cassette, you must indicate the type of cassette inserted.

- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **VCR FUNCTION SETUP** option.
- 3 Press the ENTER button to select this option.
- 4 Press the corresponding ▲ or ▼ buttons, until the **TAPE SELECT** option is selected.
- 5 Press the ◀ or ▶ buttons as many times as required, until the correct cassette length is displayed.

- 6 Press RETURN twice to exit the menu.



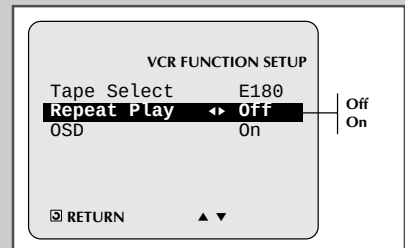
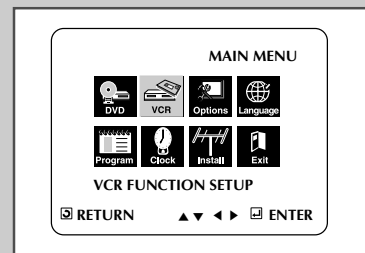
Auto Repeat Play

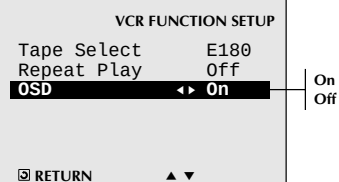
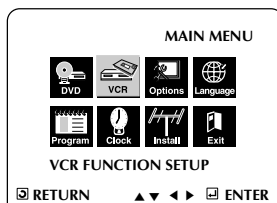
VCR

You can set repeat play to repeat the tape continuously from beginning to end.

- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **VCR FUNCTION SETUP** option.
- 3 Press the ENTER button to select this option.
Result: The **VCR FUNCTION SETUP** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **Repeat Play** option is selected.
- 5 To... Press ◀ or ▶, until...

Repeat play	ON is displayed.
Do not wish to repeat play	OFF is displayed.
- 6 On completion, press RETURN twice to exit the menu.



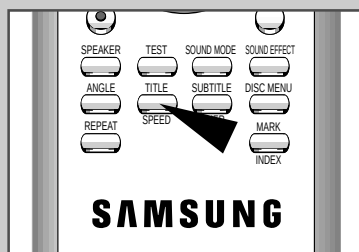


Your DVD-VCR displays most information both on the DVD-VCR and the television.

You can choose to display or hide this information on the television screen (except for the Index, MAIN MENU and Timer functions, which cannot be hidden).

- 1 Press MENU on the remote control.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **VCR FUNCTION SETUP** option.
- 3 Press the ENTER button to select this option.
Result: The **VCR FUNCTION SETUP** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **OSD** option is selected.
- 5 To... Press ◀ or ▶, until...
Display on-screen information **ON** is displayed.
Hide on-screen information **OFF** is displayed.
- 6 On completion, press RETURN twice to exit the menu.

Type	Recording Time (in SP)
E-180	180 mins. or 3 hours
E-240	240 mins. or 4 hours
E-260	260 mins. or 4 hours and 20 mins.
E-300	300 mins. or 5 hours



You can record a cassette at two different speeds:

◆ **SP (Standard Play)**

◆ **LP (Long Play)**

In Long Play modes:

◆ **Each cassette lasts twice as long**

◆ **The recording is of a slightly lower quality**

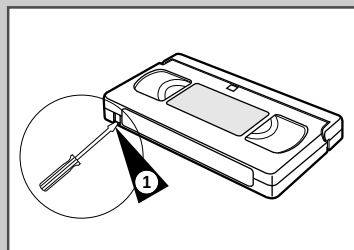
To record a cassette...	Press the SPEED button on the remote control, until...
In standard play mode	SP is displayed.
In long play mode	LP is displayed.

Protecting a Recorded Cassette

VCR

Video cassettes have a safety tab to prevent accidental erasure. When this tab has been removed, you cannot record on the tape.

- 1 If you wish to protect a cassette, break off the tab using a small screwdriver.
- 2 To re-record over a protected cassette (safety tab broken), cover the hole with adhesive tape.



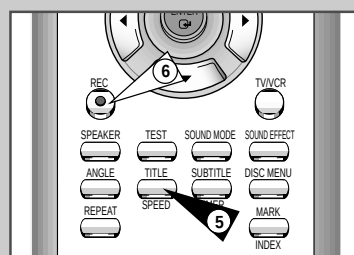
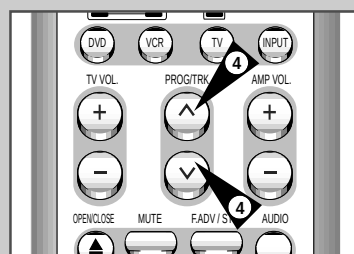
GB

Recording a Programme Immediately

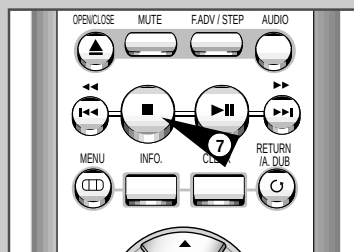
VCR

Before recording a programme, you must have preset the corresponding station (unless you are recording via an external video source). If you have not done so, refer to pages 20 and 21.

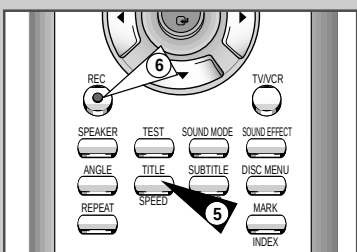
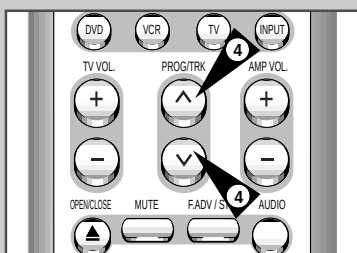
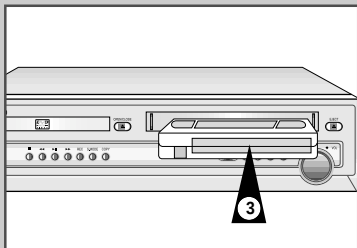
- 1 Switch on the television.
- 2 To monitor the programme being recorded, select the television channel reserved for use with your DVD-VCR (or the AV input if used).
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
Result: The DVD-VCR is switched on automatically.
- 4 Select:
 - ◆ The station to be recorded using the PROG (^ or v) buttons or
 - ◆ The AV1, AV2 or AUX source using the INPUT button for a satellite tuner or external video sourcesResult: The station number is displayed and the programme can be seen on the television.



- 5 Select the recording speed by pressing the SPEED button as many times as required (see page 28).
- 6 Hold REC (●) down for a while to start recording.
Result: The record indicator appears on the television and DVD-VCR display. An index is recorded on the tape (see page 35).
- 7 To stop recording, press ■ once.



- ◆ If your DVD-VCR ejects the cassette when you start recording, check to make sure that the cassette's safety tab is intact or that the opening (created by a broken safety tab) is covered with adhesive tape.
- ◆ If you reach the end of the tape while recording, the cassette rewinds automatically.



This function enables you to record up to nine hours (LP) of programmes.

Your DVD-VCR stops automatically after the requested length of time.

- 1 Switch on the television.
- 2 To monitor the programme being recorded, select the television channel reserved for use with your DVD-VCR (or the AV input if used).
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
Result: The DVD-VCR is switched on automatically.
- 4 Select:
 - ◆ The station to be recorded using the PROG (∧ or ∨) buttons or
 - ◆ The AV1, AV2 or AUX source using the INPUT button for a satellite tuner or external video sourceResult: The channel number is displayed and the programme can be seen on the television.
- 5 Select the recording speed by pressing the SPEED button as many times as required (see page 28).
- 6 Hold the REC button (●) down for a while to start recording.
Result: The record indicator appears on the television screen and DVD-VCR display. An index is recorded on the tape (see page 35).
- 7 Press the REC button (●) several times to increase the recording time in:
 - ◆ 30-minute intervals up to four hours
 - ◆ 1-hour intervals up to nine hours (LP)Result: The length is displayed on the television displays. The selected programme is recorded for the length of time requested. At the end of that time, the DVD-VCR stops recording automatically.
- 8 If you wish to cancel the recording before the end, press STANDBY/ON.



If the end of the tape is reached while recording:

- ◆ The recording stops

The Timer Programming feature allows you to preset the DVD-VCR to record a programme up to one month before that programme is to be broadcast. Up to six programmes can be preset.

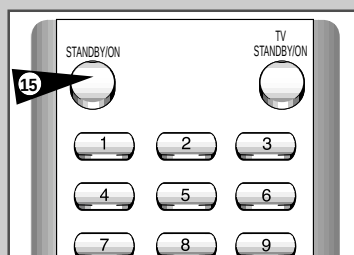
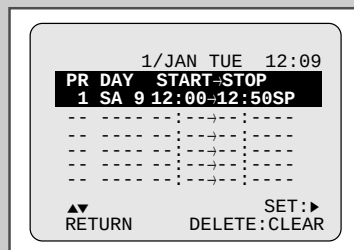


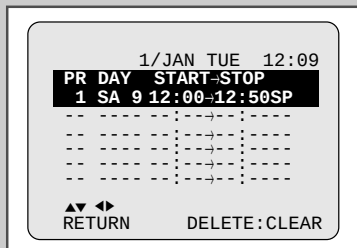
Before presetting a recording, check that the date and time are correct.

- 1 Press **TIMER** on the remote control.
Result: The timer selection is displayed.
- 2 Press **▶** to select the input source.
- 3 Select the required station by pressing the **▲**, **▼** buttons.
- 4 Press **▶** to select the recording day.
- 5 Select the required day by pressing the **▲** or **▼** buttons.
- 6 Press **▶** to select the recording start time.
- 7 Select the required hour value by pressing the **▲** or **▼** buttons.
- 8 Press **▶** to select the minutes.
- 9 Select the required minute value by pressing the **▲** or **▼** buttons.
- 10 Press **▶** to select the recording end time.
- 11 Select the required recording end time by pressing the **▲** or **▼** buttons, following the same procedure as when selecting the recording start time.
- 12 Press **▶** to select the recording speed.
- 13 Press the **▲** or **▼** buttons to select the **SP** (Standard Play), **LP** (Long Play), **AUTO** (Auto Tape Speed Select) recording speeds.
- 14 When you have finished, press the **RETURN** button.
- 15 Press the **STANDBY/ON** button to activate the timer.
Result: Before starting recording, the DVD-VCR compares the timer duration with the remaining time on the cassette.



Auto Tape Speed Select. The DVD-VCR's "Auto Tape Speed Select" function compares the duration of the timer recording to the actual recording time remaining on the tape loaded. If there is insufficient tape to complete a timer recording in **AUTO** mode, the DVD-VCR automatically switches to **LP** mode to record the whole programme.

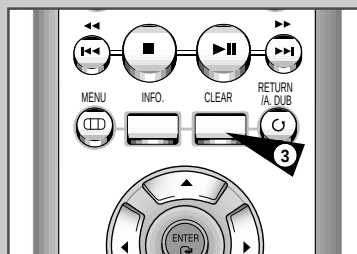
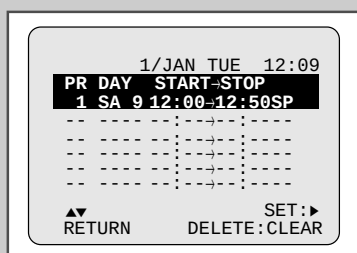




You can check your preset recordings:

- ◆ When you have finished presetting the DVD-VCR
- ◆ If you have forgotten which programmes will be recorded

- 1 Press TIMER on the remote control.
Result: The **TIMER PROGRAMMING** menu is displayed.
- 2 Press the ▲ or ▼ buttons to select the required programme.
- 3 Press the ◀ or ▶ buttons to select and change any values as required. For more details, refer to the previous page.
- 4 On completion, press RETURN twice.



You can cancel any programmes that are:

- ◆ Incorrect
- ◆ No longer required

- 1 Press TIMER on the remote control.
Result: The **TIMER PROGRAMMING** menu is displayed.
- 2 Select the programme to be cancelled by pressing the ▲ or ▼ buttons.
- 3 Press the CLEAR button to cancel the selected programme.
Result: All the recording information is deleted and the broadcast will not be recorded.
- 4 On completion, press RETURN once.

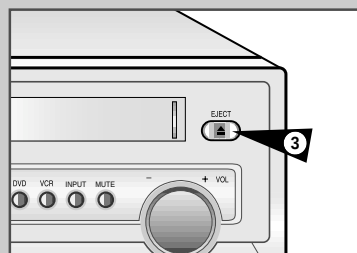
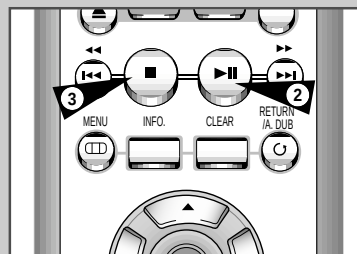
Playing a Cassette

VCR

GB

This function allows you to play back any pre-recorded cassette.

- 1 Switch on both the television and your DVD-VCR.
- 2 Insert the video cassette to be played. If the safety tab on the cassette is intact, press ►II. Otherwise, the cassette is played automatically.
 - When a cassette is loaded, the tape position is optimized automatically to reduce disturbance (Digital Auto Tracking). When playing a cassette, if the end of the tape is reached, the cassette rewinds automatically. NTSC tapes can be played back but cannot be recorded with this DVD-VCR.



3 To...	Then press...
Stop the playback	■ (STOP).
Eject the cassette	▲ (EJECT).

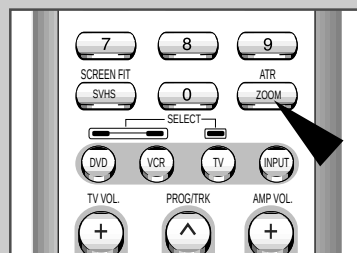
Adjusting Picture Alignment Automatically

VCR

The Picture Alignment feature enables you to optimize the tape position automatically to obtain the best possible picture.

When noise bars or streaks appear during playback, adjust picture alignment by pressing the ATR button.

- Result:
- ◆ The tracking bar appears.
 - ◆ The picture is automatically adjusted.
 - ◆ The tracking bar disappears when digital auto tracking has been completed.



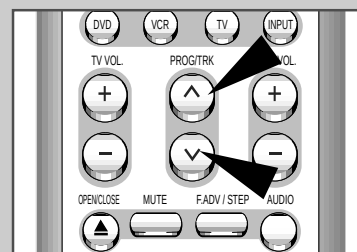
Adjusting Picture Alignment Manually

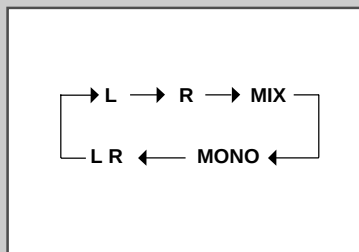
VCR

The Picture Adjustment feature allows you to adjust the alignment manually to obtain the best possible picture.

When noise bars or streaks appear during playback, adjust alignment manually by pressing the TRK (▲ or ▼) buttons until the picture is clear and stable.

- Result:
- ◆ The tracking bar appears.
 - ◆ The image is adjusted.
 - ◆ The tracking bar disappears when you release the button.

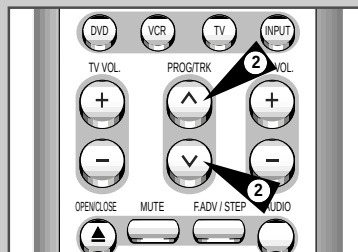
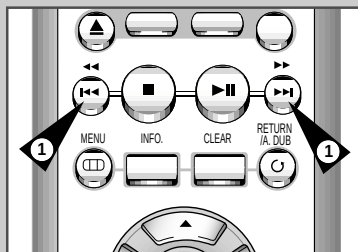




You can select the mode in which the sound is reproduced on the loudspeakers and AV outputs. The following options are available in tape playback mode.

Option	Description
L	Used to listen to the sound on the left Hi-Fi channel.
R	Used to listen to the sound on the right Hi-Fi channel.
MIX	Used to listen to the mixed sound of the Hi-Fi and normal channels.
MONO	Used to listen to the sound on the normal mono channel.
L R	Used to listen to Hi-Fi stereo sound on the left and right channels. ➤ When playing back tapes recorded in Hi-Fi, the sound switches to Hi-Fi after five seconds of Mono.

To select the sound mode, simply press the AUDIO button on the remote control until the required option is displayed.



You can play a cassette in slow motion.

- No sound is heard when playing back a cassette in slow motion.

- Press:
 - ◆ ►► to start playing the cassette
 - ◆ ►► button one more time to make STILL mode.
 - ◆ ►► to start SLOW mode.
 - ◆ ◀◀ or ►► button as many times as required to decrease or increase the speed respectively
 - ◆ To return to the normal speed, press the ►► button twice.
- When playing back in slow motion, picture interference may occur. Press the TRK (▲ or ▼) buttons to minimize this effect.

✎ When you have been using the Slow Motion function for more than about five minutes, the DVD-VCR will automatically play to protect the:

- ◆ Cassette
- ◆ Video heads

Each time you record a cassette on this DVD-VCR, an “index” is automatically marked on the tape when recording starts.

The Search function allows you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows:

		↓		
etc.	Prev Seq.	Seq. being played	Next Seq.	etc.
2	1		1	2

- This DVD-VCR uses a standard indexing system (VISS). As a result, it will recognize any indexes marked by other VCRs using the same system and vice versa.

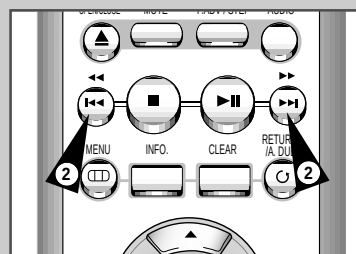
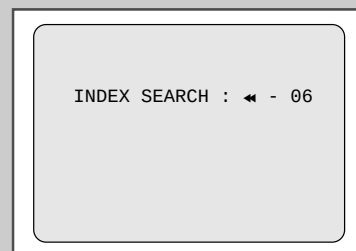
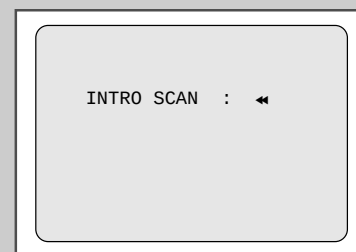
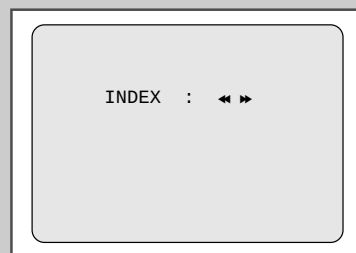
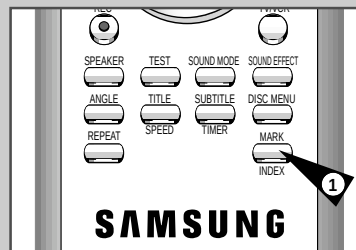
INTRO SCAN

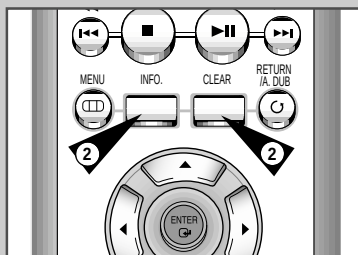
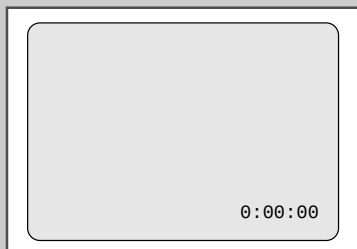
- 1 To search for a specific index, press INDEX.
- 2 Press the ◀ or ▶ buttons depending on the direction where your desired programme is located.
- 3 When an Index mark is found the DVD-VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.
- 4 If you want to watch the tape from a particular Index, simply press ▶|| twice.

Index Skip Search:

This feature will enable you to fast forward or rewind to a specific point on a tape: E.g. if you have recorded 3 different programmes on a tape and you have rewound the tape to the beginning, by using this feature you can go directly to the start of programme 2 simply by pressing the INDEX button.

- 1 Press the INDEX to start the Index search.
- 2 Press the ◀ or ▶ buttons twice more. This will take you directly to the start of the desired programme is located.
- 3 These Index searches can be made forwards: (press ▶) or backwards: (press ◀).
- 4 To cancel an Index search simply press the ▶|| or ■ button.





The tape counter:

- ◆ Indicates the elapsed time in the play and record modes (hours, minutes and seconds)
- ◆ Is reset when a cassette is inserted in the DVD-VCR
- ◆ Allows you to find the beginning of a sequence easily



If the remaining time is to be calculated correctly, you must indicate the type of cassette being used.

- 1 Insert a cassette in your DVD-VCR.
- 2 To set the tape counter to zero at the beginning of a sequence:
 - ◆ Press INFO. twice to display the counter
 - ◆ Press CLEAR when you want to set the tape counter to zero
- 3 When you are ready,
 - ◆ Start playback or Recording.
 - ◆ Press the ■ button.
 - ◆ To fast-forward or rewind to the sequence at which the counter was set to zero, press ◀ or ▶.



Some DVD-VCR information, such as the counter, can be displayed on the television screen (unless you have deactivated the OSD mode; refer to page 28).

Press INFO.:

- ◆ Once to display the current function, programme number, recording speed, date, time and counter
- ◆ Twice to display the counter only
- ◆ Three times to display the time remaining on the cassette
- ◆ Four times to clear the display

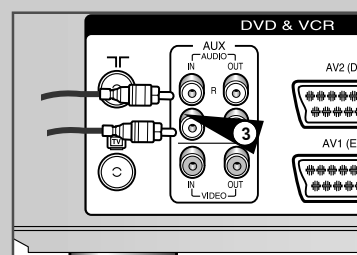
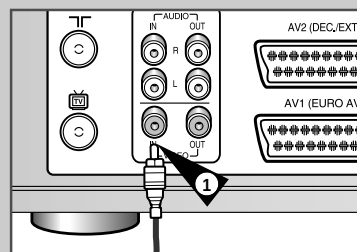
You can connect other audio/video equipment to your DVD-VCR using audio/video cables if the appropriate outputs are available on the equipment chosen.

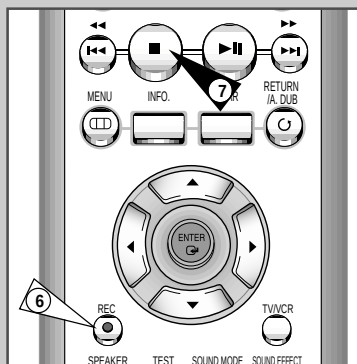
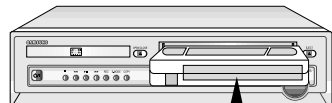
- Examples:** ♦ You wish to copy a video cassette with the help of a second VCR (see page 38).
 ♦ You wish to play back or copy pictures taken with a camcorder (see page 38).



- ♦ Make sure that both the television and the VCR are switched off before connecting the cables.

- 1 Connect one end of the RCA video cable into the VIDEO socket on the rear of the DVD-VCR.
- 2 Plug the other end of the video cable into the appropriate output connector on the other system (VCR or camcorder).
- 3 Connect one end of the RCA audio cable into the AUDIO sockets on the rear of the DVD-VCR.
 - Take care to respect the colour coding of the left and right channels.
- 4 Plug the other end of the audio cable into the appropriate output connectors on the other system (VCR, camcorder or Hi-Fi sound system).





You can copy a cassette to your DVD-VCR from another video source, such as another VCR or a camcorder.



It is an infringement of copyright laws to copy prerecorded cassettes or to re-record them in any form without the permission of the owners of the corresponding copyright.

- 1 Connect the DVD-VCR, from which the cassette is to be copied, to the appropriate SCART input connectors on the rear of your DVD-VCR, as indicated on page 12.
- 2 Insert a blank cassette in your DVD-VCR.
- 3 Insert the pre-recorded cassette in the other video source (VCR or camcorder).
- 4 Press the INPUT button to select the appropriate input on your DVD-VCR:
 - ◆ AV1, AV2 for the SCART input
 - ◆ AUX for the RCA input
- 5 Start playing back the cassette to be copied.
- 6 Hold REC (●) down for a while to start recording on your DVD-VCR.
- 7 When you have finished recording, press ■ on both VCR and DVD-VCR.

With the Audio Dubbing function, you erase the previously recorded sound and replace it with a new soundtrack from:

- ◆ A CD, DVD
- ◆ A microphone connected to a sound system
- ◆ A cassette player

Restriction:

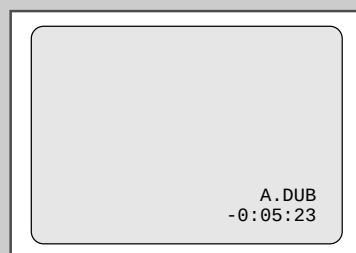
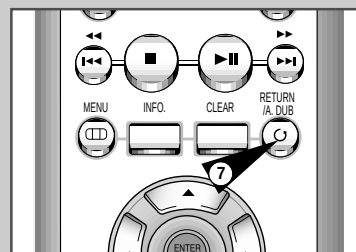
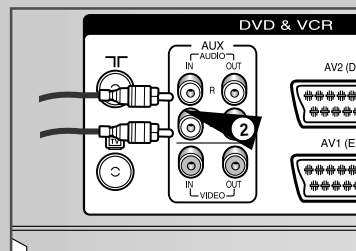
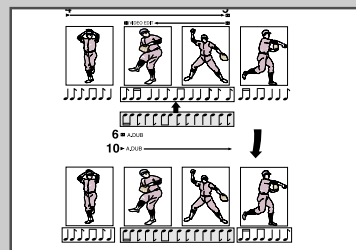
Audio dubbing is applicable only to the longitudinal audio track (normal audio).

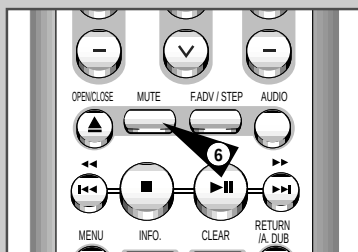
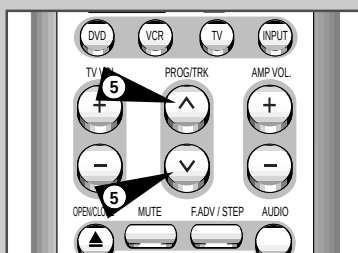
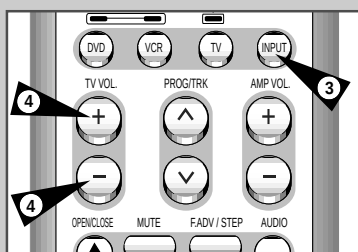
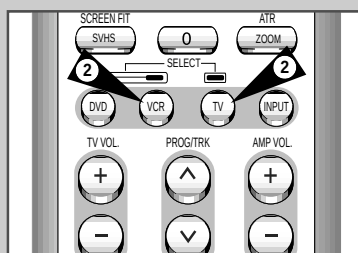
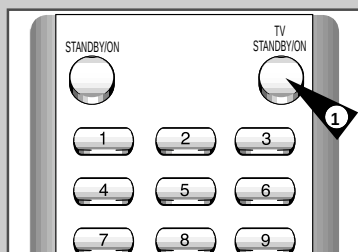
- 1 Connect an RCA audio cable to the appropriate output on your sound system (cassette player for example).
- 2 Connect the other end of the RCA audio cable to the audio input connectors (L, R) on the rear of your DVD-VCR.
- 3 Insert the pre-recorded cassette on which the audio track is to be replaced, and press the ►II to start playback.
- 4 Search for the Audio Dubbing (ending) point using the ►►, and set the counter to 0:00:00 by pressing INFO. and CLEAR.
- 5 Search back slightly beyond the Audio Dub start point using the ◀◀ button.
- 6 Press the ►II button.
Press the ►II button one more time to make STILL mode.
- 7 Press A.DUB.
Result: Your DVD-VCR is now in the Audio dubbing Still mode.
- 8 On the sound system, locate the point on the cassette at which you wish to start playback.
Example: The track that you wish to record on the cassette.
- 9 When you are ready:
 - ◆ Start playback on the sound system
 - ◆ Press the REC(●) on the remote control.**Result:** The soundtrack is replaced on the pre-recorded cassette.
- 10 The audio dubbing will finish when the counter reaches 0:00:00.



The new sound will be recorded on the normal sound track of the tape, and the original sound will remain on the Hi-Fi sound track.

To hear the new sound and original sound mixed together, press the Audio button on the remote control until the MIX option is displayed (see page 34).





Your DVD-VCR remote control will work with Samsung televisions and compatible brands.

To determine whether your television is compatible, follow the instructions below.

- 1 Switch your television on.
- 2 Point the remote control towards the television.
- 3 Hold down the TV button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate numeric buttons.

Brand	Codes	Brand	Codes
SAMSUNG	01 to 06	PHILIPS	02, 20, 22
AKAI	09, 23	SABA	13, 14, 22 to 24
GRUNDIG	09, 17, 21	SONY	15, 16
LOEWE	02	THOMSON	13, 14, 24
PANASONIC	08, 23 to 27	TOSHIBA	07, 16 to 19, 21

Result: If your television is compatible with the remote control, it will switch off. It is now programmed to operate with the remote control.

- If several codes are indicated for your television brand, try each one in turn until you find one that works.



When you change the batteries in the remote control, you must reprogramme the code, following the same procedure.

You can then control the television using the following buttons.

Button	Function
TV STANDBY/ON ①	Used to switch the television on and off.
TV or VCR ②	Used to switch between the TV and VCR modes.
INPUT ③	Used to select an external source.
TV VOL + or - ④	Used to adjust the volume of the television.
PROG/TRK ⑤ (^ or v)	Used to select the required programme.
MUTE ⑥	Used to mute the volume of the television.



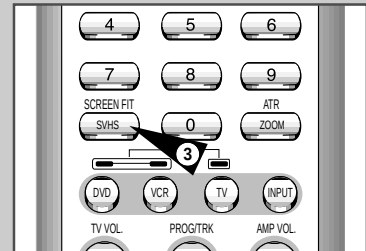
The various functions will not necessarily work on all televisions. If you encounter problems, operate the television directly.

This function is for playback of Super VHS format tapes only, not for recording.

- 1 Inset the SVHS format tape that you want to see.
- 2 Press PLAY (▶II) to start playing the cassette.
- 3 Press SVHS button to start SQPB.

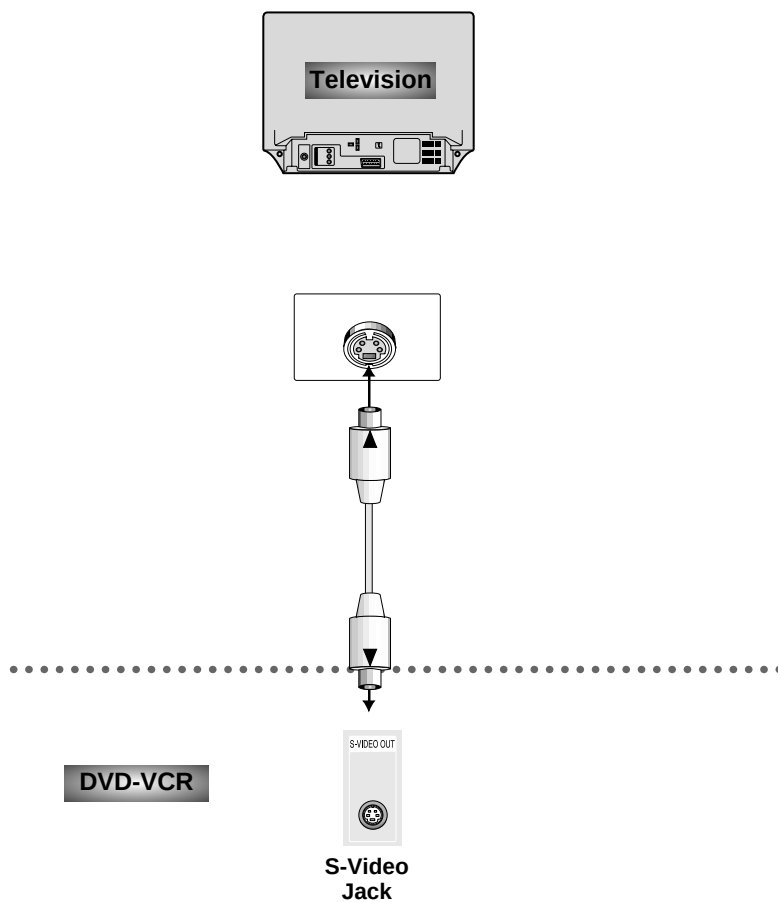


If the SQPB is on during normal playback, the video output is distorted.



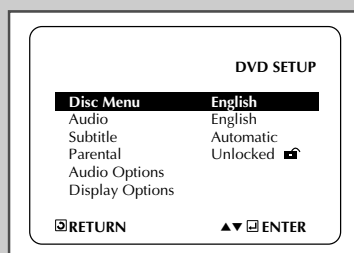
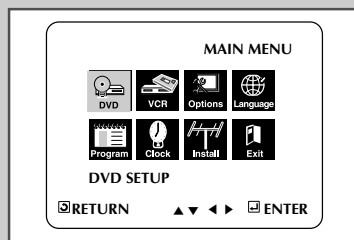
The following show examples of connections commonly used to connect the DVD-VCR with a TV and other components. It is only available for DVD. The VCR out can not watch by this connection.

Connection to an Television

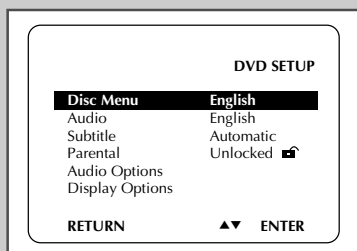
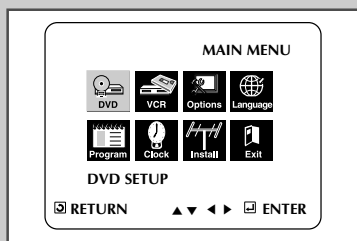


The Main menu lets you customize your DVD-VCR by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

- 1 With the unit in Stop mode, press the MENU button on the remote.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the DVD SETUP.
- 3 Press the ENTER button to select this option.
Result: The DVD SETUP menu is displayed.
 - **Disc Menu** : Setup of the Menu Language
Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in.
 - **Audio** : Setup of the Audio Language
Use the Audio preference menu to select the soundtrack language.
 - **Subtitle** : Setup of the Subtitle Language
Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in.
 - **Parental** : Setup of the Parental Level
Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.
 - **Audio Options** : Setup of the Audio Options
 - **Display Options**: Setup of the Display Options use to select which type of screen you want to watch and several display options.
- 4 Use the ▲ or ▼ buttons on the remote to access the different features.
- 5 Press the ENTER button to access the sub features.
 - To make the setup screen disappear after setting up, press the RETURN button again.



➤ *Depending on the disc, some MAIN Menu selections may not work.*



This function changes the text language only on the disc menu screens.

- 1 With the unit in Stop mode, press the MENU button on the remote.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the DVD SETUP.
- 3 Press the ENTER button to select this option.
Result: The DVD SETUP menu is displayed.
- 4 Use the ▲ or ▼ buttons to select Disc Menu.
- 5 Press the ENTER button.
- 6 Use the ▲ or ▼ buttons to select 'English'.
- Select "Others" if the language you want is not listed.
- 7 Press the ENTER button.
- English is selected and the screen returns to DVD SETUP.



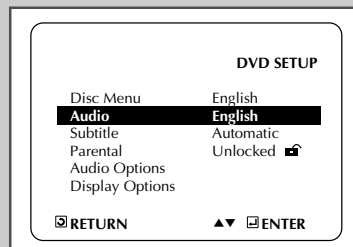
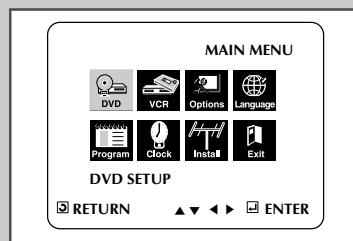
How to make the MAIN MENU disappear or return to menu screen during setup ; Press RETURN button.

Using the Audio Language Features

DVD

Using the Audio Language:

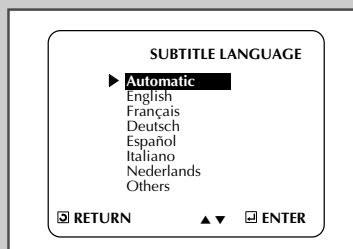
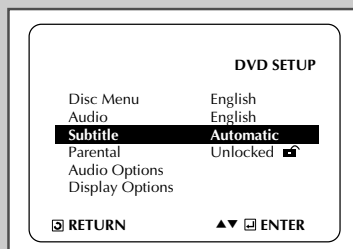
- 1 With the unit in Stop mode, press the MENU button on the remote.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the DVD SETUP.
- 3 Press the ENTER button to select this option.
Result: The DVD SETUP menu is displayed.
- 4 Press the ▲ or ▼ buttons to move to Audio.
- 5 Press the ENTER button.
- 6 Press the ▲ or ▼ buttons to select 'English'.
- Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.
- Select "Others" if the language you want is not listed.
- 7 Press the ENTER button.
- English is selected and the screen returns to DVD SETUP.



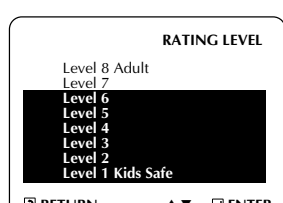
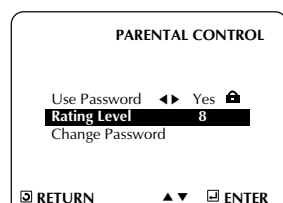
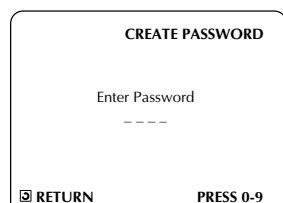
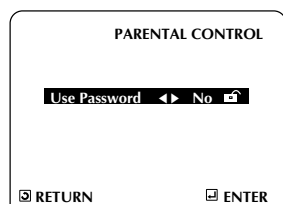
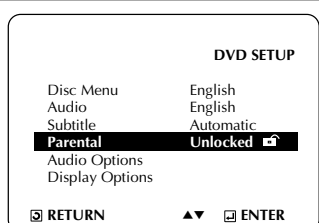
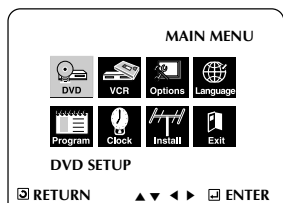
Using the Subtitle Language

DVD

- 1 With the unit in Stop mode, press the MENU button on the remote.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the DVD SETUP.
- 3 Press the ENTER button to select this option.
Result: The DVD SETUP menu is displayed.
- 4 Use the ▲ or ▼ buttons to select Subtitle.
- 5 Press the ENTER button.
- 6 Use the ▲ or ▼ buttons to select 'English'.
- Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference.
- Select "Others" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.
- 7 Press the ENTER button.
- English is selected and the screen returns to DVD SETUP.



- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- How to make the MAIN MENU disappear or return to menu screen during set up; Press RETURN button.



The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

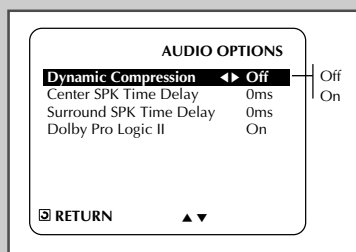
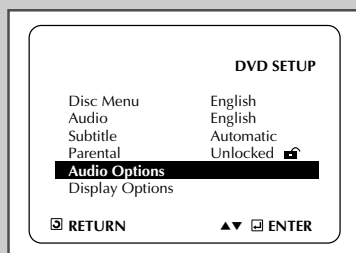
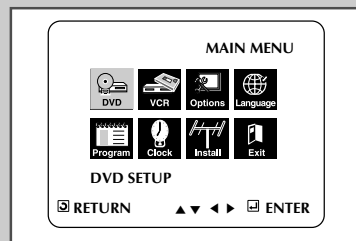
- 1 With the unit in Stop mode, press the MENU button on the remote.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the DVD SETUP.
- 3 Press the ENTER button to select this option.
Result: The DVD SETUP menu is displayed.
- 4 Use ▲ or ▼ to select Parental. Press ENTER. The PARENTAL CONTROL screen appears.
- 5 Use ◀ or ▶ to select Yes if you want to use a password.
The Enter Password screen appears.
- 6 Enter your password. The Re-enter Password screen appears to confirm the password. Enter your password again. The PARENTAL CONTROL screen appears.
- 7 About the Rating Level :
 - The Rating Level will work only when Use Password is set to Yes. To unlock the player, use ◀ or ▶ to select No. Use ▲ or ▼ to select Rating level. Press ENTER.
 - Use ▲ or ▼ to select the level(e.g. Level 6) and press ENTER. Discs that contain Level 7 will now not play.
 - To cancel the rating level, use ◀ or ▶ to select No in Use Password.
- 8 About the Change Password:
 - Use ▲ or ▼ to select Change Password and press the ENTER button. The Change Password screen appears.
 - Enter your new password. Re-enter the new password.

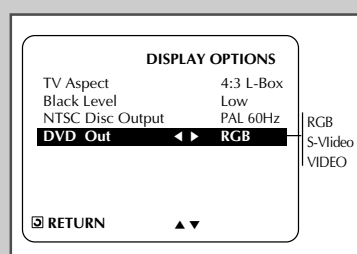
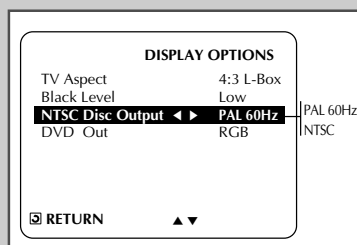
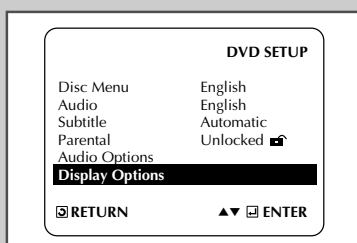
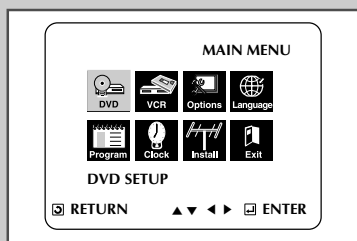


- *How to make the MAIN MENU disappear or return to menu screen during set up; Press RETURN button.*
- *If you have forgotten your password, see Forget Password in the Troubleshooting Guide.*

- 1 With the unit in Stop mode, press the MENU button on the remote.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the DVD SETUP.
- 3 Press the ENTER button to select this option.
Result: The DVD SETUP menu is displayed.
- 4 Use the ▲ or ▼ buttons to select Audio Options. Then press the ENTER button.
- 5 Use the ▲ or ▼ buttons to select the desired item. Then press the ◀ or ▶ buttons.
 - Dynamic Compression
 - On : To select dynamic compression.
 - Off : To select the standard range.
 - Center SPK Time Delay (See Page 62)
 - Surround SPK Time Delay (See Page 62)
 - Dolby Pro Logic II (See Page 64)

➤ • *How to make the MAIN MENU disappear or return to menu screen during set up: Press RETURN button.*





- 1 With the unit in Stop mode, press the MENU button on the remote.
Result: The MAIN MENU is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the DVD SETUP.
- 3 Press the ENTER button to select this option.
Result: The DVD SETUP menu is displayed.
- 4 Use the ▲ or ▼ buttons to select **Display Options**. Then press the ENTER button.
- 5 Use the ▲ or ▼ buttons to select the desired item. Then press the ◀ or ▶ buttons or then press the ENTER button.

• TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).

4:3 Letter Box : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

4:3 Pan-Scan : Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

16:9 Wide : You can view the full 16:9 picture on your widescreen TV.

• Black Level

Adjusts the brightness of the screen.

• NTSC Disc Output

Depending on a disc, you can play a NTSC DVD disc by PAL 60Hz or NTSC mode.

• DVD Out

RGB : Sends RGB signal to the Scart JACK .

S-Video : Sends S-VIDEO signal to the S-JACK.

Video : Sends COMPOSITE VIDEO signal to the Scart JACK.



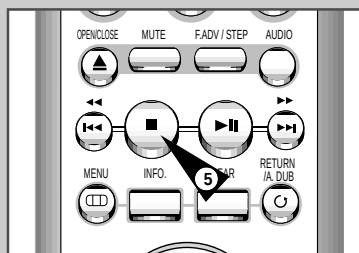
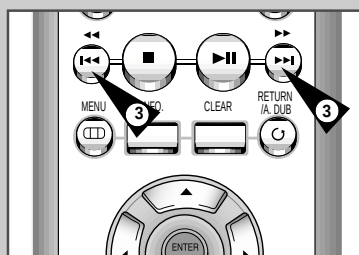
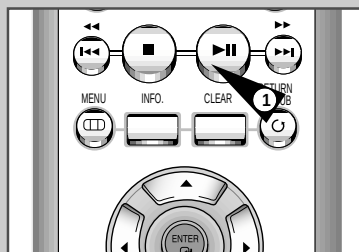
- **How to make the MAIN MENU disappear or return to menu screen during set up: Press the RETURN button.**

The S-Video is only for the DVD player. The tuner and VCR will still be viewed through the RF or line inputs. You must follow the “DVD Out” instructions on page 48 to activate your alternative (S-Video) video selection. If your television is equipped with S-Video input, you can enjoy superior video quality when watching DVDs with your DVD-VCR.

1 Connect S-Video Out to TV

Connect an S-Video cable from the S-Video Out on the rear panel of the DVD-VCR to the S-Video Input on your television.





During DVD/CD playback you can select from the following special playback options. To resume normal playback, press the ►II (Play/Still) button.

1 Still

Press the ►II (Play/Still) button on the remote control during playback.

- The picture will still and the audio will mute.
- To resume playback, press the ►II (Play/Still) button.
- If the player is left in Still mode for 5 minutes, it will stop automatically.

2 Frame Advance (Step)

While in Still mode, press the F.ADV/STEP button on the remote control to advance one frame at a time.

- Audio is muted during Frame Advance mode.
- Press ►II (Play/Still) to resume normal playback.

NOTE: Frame Advance operates only in the forward direction.

3 Skip Forward/Back

While a CD or DVD disc is in Play mode, press the Skip Forward/Back (►I / I◄) buttons on the remote control or front panel to jump forward and backward through disc chapters/tracks.

- Skip Forward will jump to the next chapter/track.
- Skip Back will jump to the beginning of the current chapter/track.
- Press Skip Back again to jump to the beginning of the previous chapter/track.

Search Forward/Back

While a disc is in Play mode, press and hold the Forward/Back (►I / I◄) buttons on the remote control or front panel to visually search forward/backward at 2X - 4X - 8X - 16X - 32X - 128X speed. Press ►II (Play/Still) button to resume normal speed.

NOTE: During CD playback ►I / I◄ buttons on the remote control don't operate.

4 Slow Motion

During playback, press the ►II (Play/Still) button to Still the image. Then use the Forward (►I) to play in slow motion at variable speeds.

- Each press increases the slow motion speed playback to 1/8, 1/4 or 1/2 of normal speed.
- Audio is muted during slow motion playback.
- Front Panel Slow Motion Buttons - Press the Forward buttons on the front panel to activate slow motion playback. Press the ►II (Play/Still) button to resume normal playback.

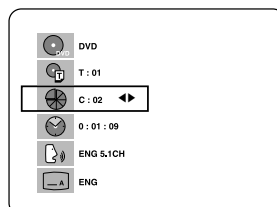
5 Stop/Resume

- Press the Stop button once to stop playback. To resume the DVD/CD from the point where the disc stopped, press the ►II (Play/Still) button.
- Press the ■ (Stop) button twice to completely stop playback. The next time you press ►II (Play/Still), the disc will start over from the beginning.

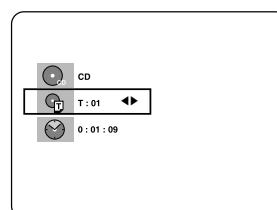
When Playing a DVD

- 1 During play, press the INFO. button on the remote.
 - Current title, chapter number, elapsed time, audio and subtitle will be displayed.
 - Use the ◀, ▶ or NUMBER buttons to enter a different title, then press the ENTER button.
 - Use the ◀, ▶ or NUMBER buttons to enter a chapter number, then press the ENTER button.
 - To enter the time from which you want to start, use the ▲ or ▼ buttons to select, then use the NUMBER buttons to enter the time. Then press the ENTER button.
 - Use the ◀ or ▶ buttons to change the values of the current audio and subtitle.
 - To make the screen disappear, press the INFO. button again.

DVD



CD



When Playing a CD

- 1 During play, press the INFO. button on the remote.
 - Current track NUMBER and elapsed time will be displayed.
 - Use the ▲ or ▼ buttons to select a track. Use the ◀ or ▶ buttons or NUMBER buttons to enter a different track number, then press the ENTER button.
 - To enter the time from which you want to start, use the ▲ or ▼ buttons to select, then use the NUMBER buttons to enter the time. Press the ENTER button.
 - To make the screen disappear, press the INFO. button again.

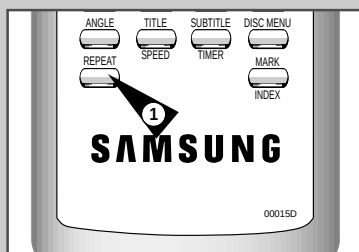


What is a Chapter?

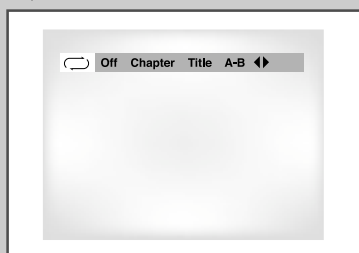
Each Title on a DVD is usually divided into chapters (similar to tracks on an audio CD).

What is a Title?

A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.



DVD



Repeat the current chapter, title, a chosen section (A-B).

- 1 Press the REPEAT button on the remote. Repeat screen appears.
- 2 Select Chapter, Title or A-B using the ◀ or ▶ buttons.
 - Repeat A-B
 - Press the REPEAT button. Select A-B on screen with the ◀ or ▶ buttons on the remote.
 - Press ENTER at the point where you want the repeat play to start (A). The B is automatically highlighted.
 - Press ENTER at the point where you want the repeat play to stop (B).
- 3 Press ENTER.
- 4 To return to normal play, press REPEAT again, then press the ◀ or ▶ buttons to select Off and press ENTER.



- *DVD repeats play by chapter or title. See page 62 to MP3 disc repeat play.*
- *Depending on the disc, the Repeat function may not work.*
- *If the title or track is completed before marking the end (B), the end of title or track becomes B automatically.*

Programmed Playback (CD)

DVD

Programmed Playback lets you set a custom order for playback of tracks on a CD.

1 Open Playback Repeat Menu

In play mode, press the REPEAT button.

2 Select "PROGRAM"

Using the ◀ / ▶ buttons, move the selection bar to "PROGRAM" then press ENTER to select.

3 Select Track

Press the ▲ / ▼ and ◀ / ▶ buttons to select the first track in your revised playback list, then press the ENTER button.

4 Program Playback Order

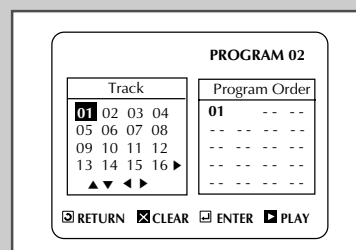
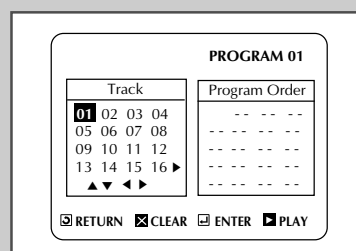
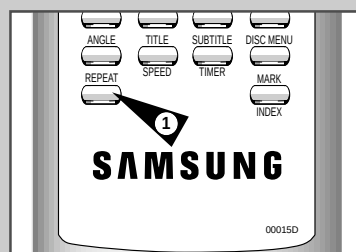
Use the ▲ / ▼ and ◀ / ▶ buttons to select the remaining tracks, pressing Enter after each.

- Press the CLEAR button to delete selections.

5 Play Revised Order

Press the ►|| (Play/Still) button. The disc will play back in the custom programmed order.

- While in playback mode, press the CLEAR button on the remote control to cancel Programmed Play.



Random Playback (CD)

DVD

Random Playback lets the DVD-VCR set a random order for playback of tracks on a CD.

1 Open Playback Repeat Menu

In play mode, press the REPEAT button.

2 Select "RANDOM"

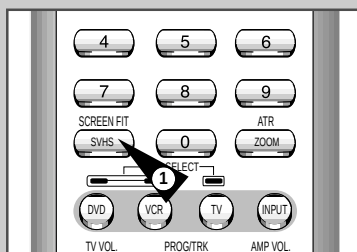
Using the ◀ / ▶ buttons, move the selection arrow to "RANDOM" then press ENTER to select.

- The disc will playback automatically in random order.

3 Cancel Random Play

Press the CLEAR button on the remote control to cancel Random Play.





1 During play, press SCREEN FIT button on remote control.

- Allows you to eliminate the black bars in the top and bottom of the screen when a movie is playing in the Widescreen format (16:9).
- Screen Fit will not work when the Zoom mode is active. (you can not remove the black bars on the screen) However, Zoom mode will work when Screen Fit is active.



- *Various aspect ratios are available only in multiple screen format discs.*
- *This function does not work when a DVD has been recorded with a multi-camera angle format.*
- *On some DVDs, the black bars cannot be eliminated due to their aspect ratio.*

Selecting the Audio Language (Using the Audio button)

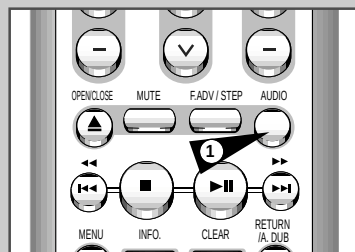
DVD

GB

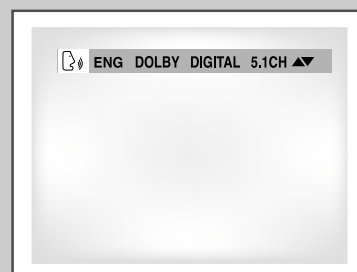
You can select a desired language quickly and easily with the AUDIO button.

- 1 Press the AUDIO button.
- 2 Use the ▲ or ▼ buttons to select the desired language on a DVD.
- The audio languages are represented by abbreviations.

-
- This function depends on what languages are encoded on the disc and may not work with all DVDs.
 - A DVD disc can contain up to 8 audio languages.
 - How to have the same audio language come up whenever you play a DVD; Refer to "Setting Up the Language Features" on page 45.



DVD



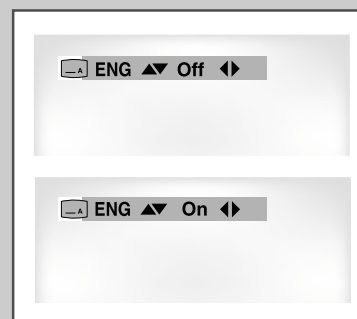
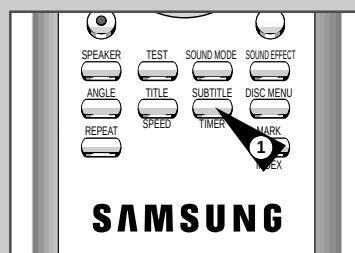
Selecting the Subtitle Language (Using the Subtitle button)

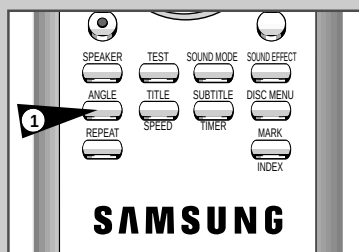
DVD

You can select a desired subtitle quickly and easily with the subtitle button.

- 1 Press the SUBTITLE button.
- 2 Use the ▲ or ▼ buttons to select the desired subtitle language.
- 3 Use the ◀ or ▶ buttons to determine whether or not the subtitle will be displayed.
- Initially, the subtitling will not appear on screen.
- The subtitle languages are represented by abbreviations.

-
- This function depends on what languages are encoded on the disc and may not work with all DVDs.
 - A DVD disc can contain up to 32 subtitle languages.
 - How to have the same subtitle language come up whenever you play a DVD; Refer to "Setting Up the Language Features" on page 45.





When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Press the ANGLE button to see if an ANGLE () mark is present at the upper right hand corner of the screen.

- 1** When an ANGLE mark is shown, press the ANGLE button, then an ANGLE select icon will appear at the upper left hand corner of the screen.
- 2** Use the ▲ or ▼ buttons to select the desired screen angle.
- 3** To turn off the display, press the ANGLE button again.

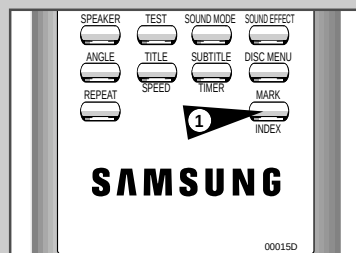
Using the Mark Function (DVD)

DVD

GB

The Mark function lets you select parts of a DVD so that you can quickly find the section at a later time.

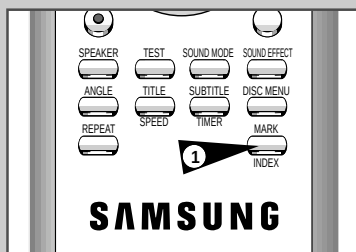
- 1 During play, press the MARK button on the remote. The Bookmark icons will be displayed.
- 2 Use the ◀ or ▶ buttons to move to the desired bookmark icon.
- 3 When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).
- 4 Press the MARK button to turn off the display.



Recalling a Marked Scene

DVD

- 1 During play, press the MARK button on the remote.
- 2 Use the ◀ or ▶ buttons to select a marked scene.
- 3 Press the PLAY/STILL (▶||) button to skip to the marked scene.



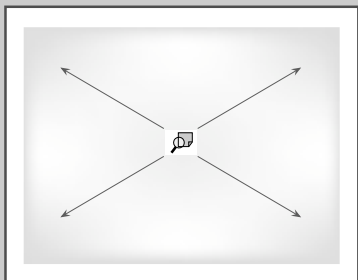
Clearing a Mark

DVD

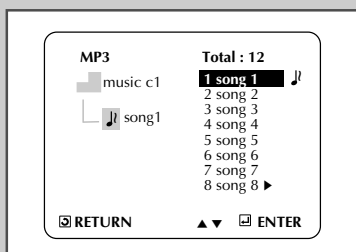
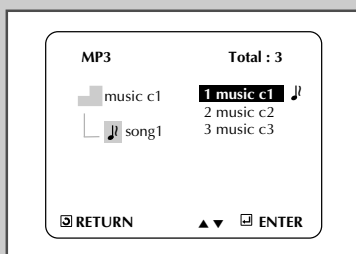
- 1 During play, press the MARK button on the remote.
- 2 Use the ◀ or ▶ buttons to select the bookmark number you want to delete.
- 3 Press the CLEAR button to delete a bookmark number. Press the MARK button to turn off display.



- Up to three scenes may be marked at a time.
- Depending on the disc, the Bookmark function may not work.



- 1 During play or still mode, press the ZOOM button on the remote. A square will be displayed on screen.
- 2 Use the ▲, ▼ or ◀, ▶ button to select the part of the screen you want to zoom in on.
- 3 Press the ENTER button.
- During DVD play : press ENTER to zoom in 2X/4X/2X/Normal in order.



When an MP3 Disc is inserted into the DVD-VCR, the first song file of the first folder plays.

- 1 Press STOP to stop playback of the first song file, then press RETURN to display the music folder menu on the left side of the screen. Up to 8 music file can be displayed at a time. If you have more than 8 file on a disc, press the ◀ or ▶ buttons to bring them up on the screen.
- 2 Use the ▲ or ▼ buttons to select the desired music folder, the press ENTER. Use the ▲ or ▼ buttons again to select a song file. Press ENTER to begin playback of the song file.



Press the REPEAT button to hear only music continuously and press it once again to release.

When you record MP3 file on the CD-R, please refer the following.

- **Your MP3 files should be ISO 9660 or JOLIET format.**

ISO 9660 format and Joliet MP3 files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. These two formats are the most widely used.

- **When naming your MP3 files do not exceed 8 characters, and place ".mp3" as the file extension.**

General name format of: Title.mp3. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/\,=,+).

- **Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.**

Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting CD audio sound requires an analog/digital sampling rate (conversion to MP3 format) of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality. Conversely, files with sampling rates below 128 Kbps will not be played properly.

- **Do not try recording copyright protected MP3 files.**

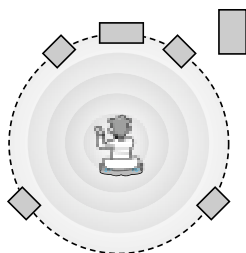
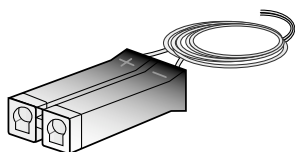
Certain "secured" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows MediaTM (registered trade mark of Microsoft Inc) and SDMITM (registered trade mark of The SDMI Foundation). You cannot copy such files.

- **Your DVD player only accepts one level of file directory. Consequently you must choose:**

- either to save all your MP3 recording files at the root of the disc;
- and/or create folders in the directory for each artist or music type (e.g.classical, rock, jazz, etc)

- **Important:** The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).

Connecting the Speakers

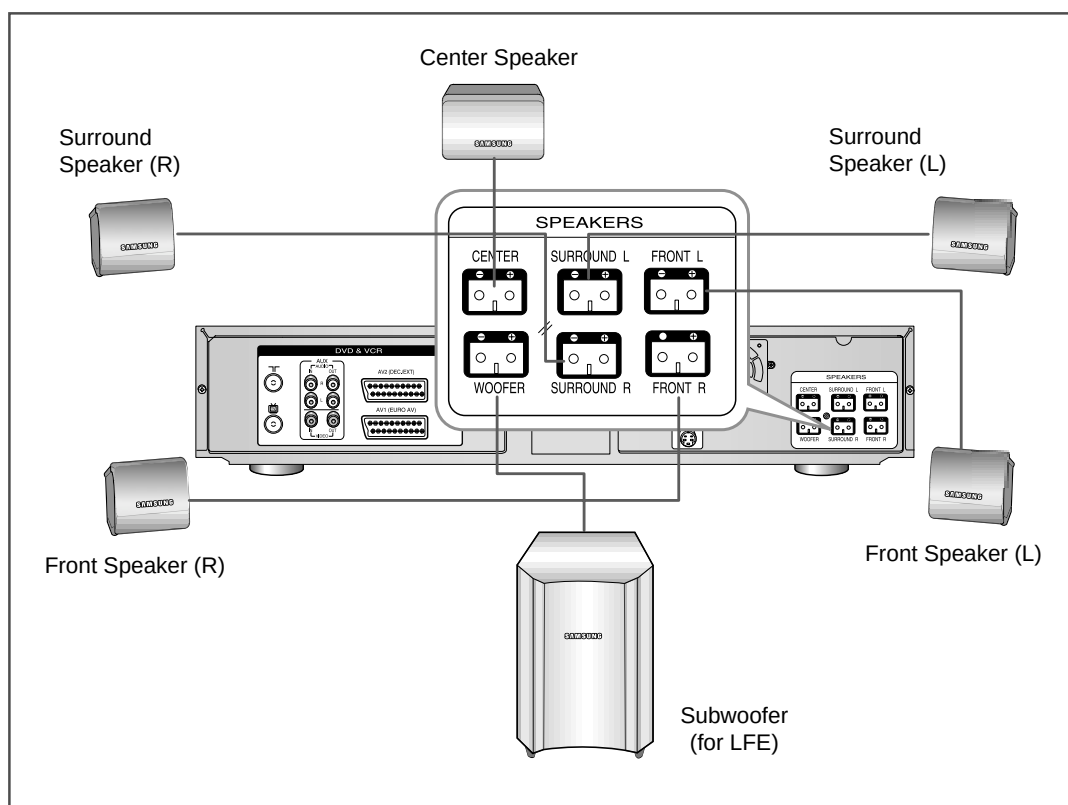


Connect the front, center, and surround speakers and the subwoofer to the speaker terminals on the back of the main unit.

- 1 Connect the speakers to the speaker output terminals on the back of the main unit, matching the colors.

Caution

Caution: Please do not set up the Subwoofer near by TV or monitor because the Subwoofer is not fully magnetic shielded.



Speaker Volume Control

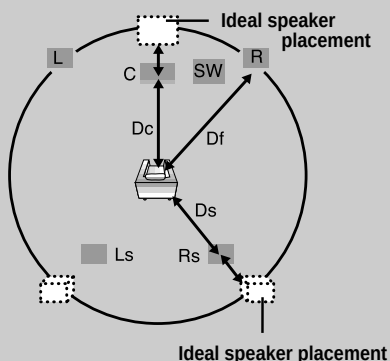


1 AMP SPEAKER Control

- Connect the speaker to the speaker jack on the rear.
- The volume can be adjusted from level 20.
- When you turn the power ON, if the last volume level was over 20, the volume will be set to 20, and if it was under 20, the volume will be set to that level.

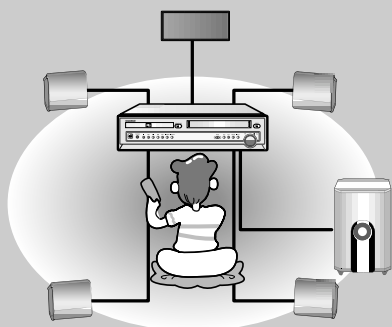
Speaker setup

GB



(A) Distance (feet/inch)	Value (ms)
0.00	0.00
1.12	13.38
2.23	26.77
3.34	40.15
4.46	53.54
5.58	66.93

(B) Distance (feet/inch)	Value (ms)
0.00	0.00
3.35	40.15
6.69	80.31
10.03	120.47
13.39	160.62
16.73	200.79



1 Open "MAIN MENU"

With the DVD in stop mode, press the MENU button.

2 Select "DVD"

Using the ▲, ▼ and ◀, ▶ buttons, move the selection cursor to "DVD Setup", then press ENTER to select.

3 Select "Audio Options"

Move the selection bar to "Audio Options", then press ENTER to options.

Setting the delay time

You can customize the sound to best fit the specific acoustics of the room by adding a delay to the sound from the center and surround speakers.

The delay time is initially set to 0 ms.

- ◆ *You can enjoy the best sound during 5.1 channel surround playback if the distance between you and each speaker is the same. You can adjust the delay time for the center and surround speakers according to the placement of the speakers in the room.*

◆ For the center speaker

If the distance of D_c is equal to or longer than the distance of D_f , set the delay time to 0 ms.

Otherwise, change the value according to the table.

(A) = $D_f - D_c$

◆ For the surround speakers

If the distance of D_f is equal to the distance of D_s , set the delay time to

0 ms.

Otherwise, change the value according to the table shown on the right.

(B) = $D_f - D_s$

Ideal speaker placement

1 Center speaker

Place the speaker directly over or under the TV. But, ideally, the center speaker should be positioned with the top surface flush with the front speakers..

2 Front speakers

Place the front speakers so that their tweeters (high-range) are aligned at about the same height as ear level and at a horizontal angle of 45° with respect to the prime listening position.

3 Surround speakers

Place these speakers behind your listening position, facing slightly inwards, about 2 to 3 feet (60 to 90 cm) above ear level.

If there isn't enough space behind the listening position (i.e., close to the wall), place the surround speakers at either side with their front surfaces facing each other.

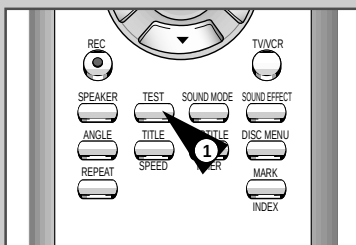
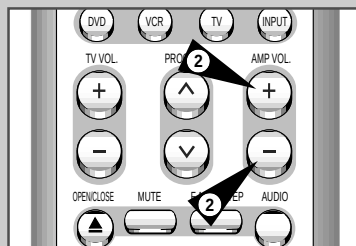
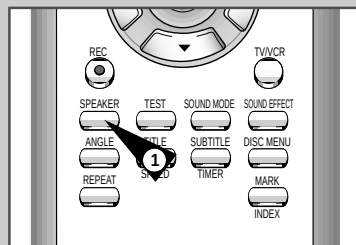
4 Subwoofer

The position or orientation of the subwoofer is not as critical. Place it anywhere you want.

Speaker setup

To adjust the speaker balance

- 1 Press the SPEAKER button.
 - If you press the button, the speaker is selected in the order of FL → C → FR → SR → SL → SU → VOL. You will see this on the unit's display.
- 2 Use the + and - buttons to adjust the volume on the desired speaker.
 - The volume can be adjusted within the range of -12 to 0 to +12.



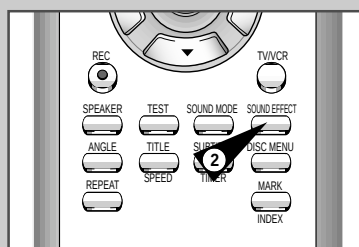
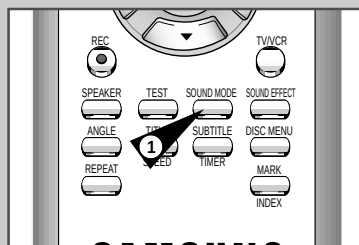
To test the speakers

- 1 Press the TEST button.
 - If you press the button, the test tone will be heard in the order of FL (Front speaker/L) → C (Center speaker) → FR (Front speaker/R) → SR (Surround speaker/R) → SL (Surround speaker/L) → SU (Subwoofer).
- 2 To stop the test tone, press the TEST button again.

➤ You can adjust the speaker balance for the selected channel using the AMP Volume buttons during the test tone operation.

Dolby Pro Logic II decoder

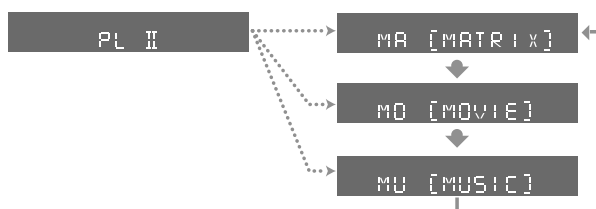
GB



Dolby Pro Logic II is a new format for playing multichannel audio signals that offers improvement over conventional Dolby Pro Logic. It can be used to decode not only sources recorded in Dolby Surround, but also regular stereo sources into five channels (front left/right, center and surround left/right). In addition, various parameters can be set according to the type of source and contents, so you can adjust the sound field with greater precision.

Select the source you want to use. (CD, Video, Input (AV1, AV2, AUX, TV CH))

- 1** Press the SOUND MODE button.
 - Press the SOUND MODE button repeatedly to select Dolby Pro Logic II.
- 2** Press the SOUND EFFECT button.
 - Each time you press the button, the sound effect changes as follows.



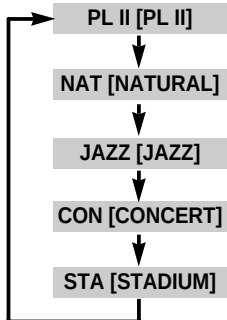
- 3** Select the desired mode ("MATRIX", "MOVIE", or "MUSIC").
 - Matrix: Use when playing sources recorded in monaural.
 - Movie: Use this when viewing movies.
 - Music: Use this mainly for music listening.

- ◆ Dolby Pro Logic II may not be selected depending on the disc used. (DTS DVD, Dolby Digital 5.1, MP3)
- ◆ When playing a DVD recorded in 2-channel Dolby Digital, it will automatically be output in Dolby Pro Logic II.
- ◆ Dolby Pro Logic II operates only when CD, VIDEO or INPUT (AV1, AV2 or TV Broadcast) is selected. Mode, Sound Effect cannot be selected while the DVD signal is being input.

SOUND MODE/EFFECT function

This feature simulates the sound of different acoustic spaces.

- 1 Press the SOUND MODE button.
 - Each time you press the button, the sound mode changes as follows.
 - The SOUND mode adds a coustic surround effect during playback of stereo analog or linear PCM digital signals.



- 2 Press the SOUND EFFECT button.
 - Each time you press the button, the selection alternates between EFFECT 1 and EFFECT 2.
 - The higher the number, the greater the effect.
 - If you press the button while in the STEREO mode, the selection alternates between STEREO snd 4 STEREO.

		Dolby Pro Logic II					
		ON	OFF				
Source \ Mode		PL II	STEREO	NATURAL	JAZZ	CONCERT	STADIUM
Video Tape		○	△	○	○	○	○
TV		○	△	○	○	○	○
AUX		○	△	○	○	○	○

○ : 5.1ch
△ : STEREO

- ◆ The Sound mode and effects do not Work With Dolby Digital, DTS, MP3, LPCM disc sources.
- ◆ Dolby Digital, DTS : 5.1-Channel speaker output
- ◆ MP3, LPCM : Outputs to the front left, right, and subwoofer speakers only.
- ◆ During DTS or MPEG playback, audio is output only to the speakers. Audio is not output using other connections.

Technical Specifications

General	Rated voltage	AC 220~240V, 50Hz
	Weight	5.9Kg
	Size	430mm X 375mm X 100mm
	Operating ambient temperature	+5°C ~ +35°C
	Installation conditions	Operation position : Horizontal, Relative humidity : Below 75%
Input	Video input (Rear)	Euro Scart socket : 1.0Vp-p (unbalanced) 75Ω
	Audio input (Rear)	Euro Scart socket : -8dBm, 47Kohm unbalanced
Output	RF out	UHF 21-69 (Initial CH36)
	Audio (DVD, VCR)	RCA jack, Euro Scart socket
	Video (DVD, VCR)	RCA jack, Euro Scart socket
	Video (DVD only)	S-Video out
VCR	Tape format	VHS type video tape, S-VHS type video tape (Playback only)
	Color system	PAL, MESECAM, SECAM, NTSC4.43, NTSC playback on PAL TV
	Tuning system	B/G, D/K
	Video S/N	Above 43dB (standard recording)
	Resolution	Above 240 lines (standard recording)
	Audio S/N	Above 68dB (Hi-Fi), 39dB (Mono)
	Audio frequency characteristics	20Hz - 20KHz (Hi-Fi)
DVD	Disc	DVD, CD (12cm), CD (8cm)
	Audio S/N	95dB
	Audio dynamic range	105dB
SYSTEM	ENVIRONMENT	41-104°F (5-40°C); 10%-75% humidity
	WEIGHT	5.9kg (Combo) + 12.8kg (SPEAKER) = 18.7kg
AMP	FRONT SPEAKER	30W X 2 (6Ω)
	CENTER SPEAKER	30 W (6Ω)
	SURROUND SPEAKER	30 W X 2 (6Ω)
	SUBWOOFER SPEAKER	50 W (4Ω)
	FREQ.RESPONSE	20 Hz ~ 20kHz
	S/N RATIO	75 dB
	CHANNEL SEPERATION	50 dB

Technical Specifications

SPEAKER	SPEAKER SYSTEM	5.1 CHANNEL SPEAKER SYSTEM		
		FRONT/CENTER/SURROUND		SUBWOOFER SPEAKER
	IMPEDANCE	6Ω X 5		4Ω
	FREQ. RESPONSE	130Hz ~ 20kHz		50Hz ~ 600Hz
	O.S.L	86dB/W/M		80dB/W/M
	RATING INPUT	30W		50W
	SIZE	FRONT SURROUND	110(W)x129(D)x100(H)	236(W) x 368(D) x 350(H)
		CENTER	150(W)x129(D)x100(H)	
	WEIGHT	FRONT SURROUND	1.025kg x 4 = 4.1kg	7.67kg
		CENTER	1.1kg	

Problems and Solutions (VCR)

Before contacting the Samsung after-sales service, perform the following simple checks.

Problem	Explanation/Solution
No power	◆ Check that the power plug is connected to a wall outlet. ◆ Have you pressed the STANDBY/ON button?
You cannot insert a video cassette	◆ A video cassette can only be inserted with the window side up and the safety tab facing you.
The television programme was not recorded	◆ Check the DVD-VCR aerial connections. ◆ Is the DVD-VCR tuner properly set? ◆ Check if the safety tab is intact on the cassette.
Timer recording was unsuccessful	◆ Was the STANDBY/ON button pressed to activate the timer? ◆ Re-check the recording start/stop time settings. ◆ If there was a power failure or interruption during timer recording, the recording will be cancelled.
No playback picture or the picture is distorted	◆ Check to see if you are using a prerecorded tape.
You cannot see normal broadcasts	◆ Check the TUNER/EXTERNAL setting. It should be on TUNER. ◆ Check the TV/VCR aerial connections.
Noise bars or streaks on playback	◆ Press the PROG/TRK ($\wedge$ or $\vee$) buttons to minimize this effect.
When the ► button is pressed during playback, the still picture has severe "noise bars" streaks	◆ A still picture may have "noise bars", depending on the condition of the tape. Press the PROG/TRK ($\wedge$ or $\vee$) buttons during SLOW motion to minimize this effect.
Video Head Cleaning	◆ If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads.
If when tuning in your TV to the DVD-VCR your TV does not find the screen or the screen suffering from interference, it may be due to the DVD-VCR output channel clashing with the normal TV transmissions in your area. To prevent this you will need to change the DVD-VCR output channel in the following way	1. Remove the aerial input plug from the socket marked (aerial symbol) on the rear of the DVD-VCR. 2. Carry out the instructions "Tuning Your Television for the DVD-VCR" (see page 15). 3. Carry out the instructions "Setting the DVD-VCR output Channel" (see page 25), move the channel number several channels down from the original setting. (example: from 34 to 36). 4. Replace the aerial plug into the socket marked (aerial symbol) on the rear of the DVD-VCR. 5. Re-tune your TV to the DVD-VCR again by following instructions "Tuning Your Television for the DVD-VCR" (page 15). 6. If the problem still exists repeat steps 1 to 5 moving several more channels away from the original setting.

If you are unable to solve the problem after reading the above instructions, note:

- ◆ *The model and serial number on the rear of your DVD-VCR*
- ◆ *The warranty information*
- ◆ *A clear description of the problem*

Then contact your nearest SAMSUNG after-sales service.

Before requesting service (troubleshooting)

Problem	Action	Page
Disc does not play.	◆ Ensure that the disc is installed with the label side facing up. ◆ Check the region number of the DVD. ◆ This player cannot play CD-ROMs, DVD-ROMs, etc. Insert a DVD, or a CD.	P6
5.1 channel sound is not being reproduced.	◆ Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. ◆ Check if your audio system is connected and working properly.	P60, 65
The  icon appears on screen.	◆ The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	P50-58
Playback mode differs from the Setup Menu selection.	◆ Some of the functions selected in the DVD SETUP may not work properly if the disc is not encoded with the corresponding function.	P43-48
The screen ratio cannot be changed.	◆ The Screen Ratio is fixed on your DVDs.	P48
No audio.	◆ Make sure you have selected the correct Digital Output in the Audio Options Menu.	P60-65
Forgot password	◆ Press power on from a cold start with no disc in the unit. Press the  and  buttons simultaneously on the front panel for five seconds. Switch off and on the DVD-VCR by pressing STANDBY/ON button. The Parental Mode is now unlocked as indicated on the display. You can now set your rating level and change your password to a new number.	P46
If you experience other problems.	◆ Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. ◆ If the problem still cannot be solved, please contact your nearest authorized service center.	



ELECTRONICS

WARRANTY CARD

GUARANTEE

GARANZIA

GARANTI

GARANTÍA

GARANTIE

GARANTIA

ΕΓΓΥΗΣΗ

TAKUU

SAMSUNG EUROPEAN BLOC WARRANTY

MODEL NAME Modelnavn, Nombre de modelo, Nombre del modelo, Modelbezeichnung, Modelnaam, Nom du modèle, Il nome di modello, Моделно тродворце, Asiakkaan puh.nro, Modelnaven, Modell
SERIAL NO. Seriennummer, No. de série, Número serial, Seriennummer, Série number, Numéro de série, Il numero di matricola, Αριθμός κατασκευής, Malli, Seriennummer., Serient
DATE OF PURCHASE Köbetid, Købsdato, Fecha de compra, Data de compra, Kaufdatum, Datum van aankoop, Date d'achat, La data d'acquisto, Ημερομηνία αγοράς αγοραστή, Asiakkaan osoite, Salgsdato, Inkopsdatum
CUSTOMER'S NAME Kundesnavn, Kundenavn, Nombre de cliente, Nombre del cliente, Name de cliente, Name des Kunden, Naam van klant, Nom du client, Il nome del cliente, Овојателно име του αγοραστή, Sarjanro, Kundens navn, Kundens namn
CUSTOMER'S TEL. NO. Kundesadress, Kundetelefonnummer, No. de Tel. de client, No. de Tel del cliente, Número de telefono de cliente, Telefonnummer des Kunden, Telefon nummer van klant, Numéro de téléphone du client, il numero de telefono del client , Αριθμός τηλεφώνου του αγοραστή, Myyjän puh.nro, Kundens telefonnr, Kundens telefonnr.
CUSTOMER'S ADDRESS Kundeadress, Kundeadresse, Dirección de client, Dirección del cliente, Endereco de cliente, Adresse des Kunden, Adres van klant, adresse du client, L'indirizzo del cliente, Διεύθυνση του αγοραστή, Ostopäivä, Kundens adresse, Customer's address
DEALER'S NAME Handlernesavn, Forhandler, Nombre de negociante, Nombre del vendedor, Nome de vendedor, Name des Händlers, Naam van handelaar, Nom du marchand, Il nome del commerciante, Όνομα του καταστηματο, Jälleenmyyjän, Forhandler, Aterforsaljare
DEALER'S TEL. NO. Handlertelefonnummer, Forhandlertelefonnummer, No. de Tel. de negociante, No. de Tel del vendedor Número de telefone de vendedor, Telefonnummer des Händlers, Telefon nummer van handelaar, Numéro téléphone du marchand, Il numero di telefono del commerciante, Αριθμός τηλεφώνου του καταστηματο, Myyjän osoite, Forhandlerens tel.nr., Handlertens telefonnr.
DEALER'S ADDRESS Handlertadress, Forhandleradresse, Dirección de negociante, Dirección del vendedor, Endereco de vendedor, Adresse des Händlers, Adres van handelaar, Adresse du marchand, Διεύθυνση του καταστηματο, Asiakkaan nimi, Forhandlerens adresse, Handlertens adress

DEALER'S STAMP & SIGNATURE

CUSTOMER'S SIGNATURE

CAUTION

Please ensure the form above is completed at the time of purchase and present it to the dealer to qualify for guarantee service, otherwise your guarantee may be affected.



UNITED KINGDOM

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.

However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

**Samsung Electronics (U.K.) Ltd.,
Euro Service Centre, Stafford Park 12,
TELFORD, Shropshire TF3 3BJ,
Tel: 0870 242 0303, Fax: 01952 207 117**

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will



REPUBLIC OF IRELAND

not cover, and no re-imbursement will be made for such adaptation nor any damage which may result.

5. This warranty covers none of the following:

- a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
- b) Cost relating to transport, removal or installation of the product.
- c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
- d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.

6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.

7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

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